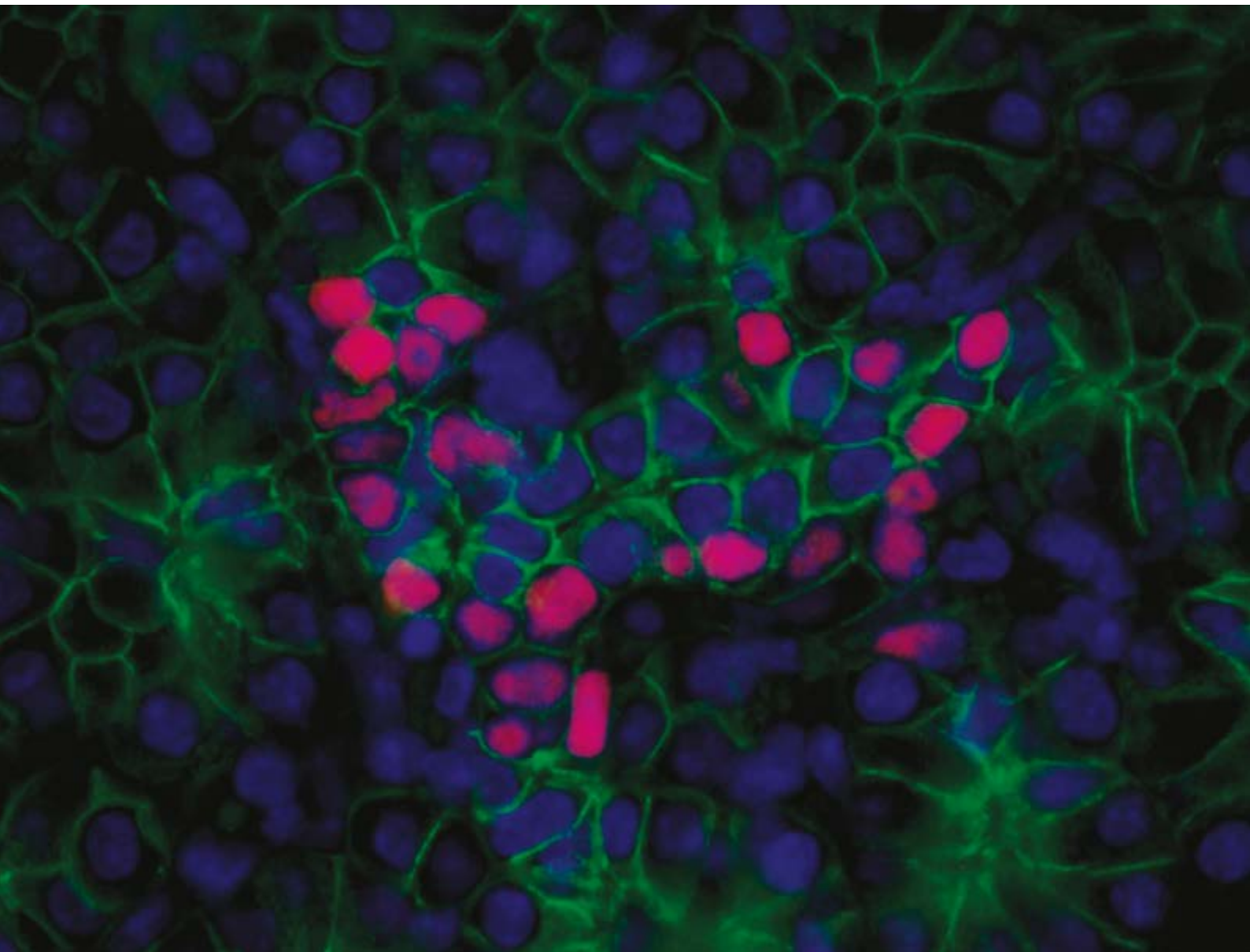


ANTIBODIES FOR DEVELOPMENTAL BIOLOGY

www.ptglab.com



Front Cover:

IF result (trunk or trunk-associated region; nucleus stain; RED) of NKX2-2 antibody (13013-1-AP) with E16.5 mouse pancreas by Dr. Nicholas George, Sarvetnick Lab – UNMC. (Green, E-Cadherin; RED, NKX2-2; Blue, DAPI).

WELCOME

Foreword

Developmental biology covers a broad spectrum of scientific research relating to the growth and development of living things. Not only does it concern the embryogenic events immediately following fertilization, it also encompasses the genetic control of cell growth, differentiation and morphogenesis – key components of regeneration and aging in the adult organism.

In this development-focused catalog you will find antibodies to those targets involved in pattern formation, such as HOX gene products and proteins involved in Notch and Hedgehog signaling; neural tube formation, such as sonic hedgehog protein; and organogenesis such as Wnt, FGF, BMP and EYA proteins. At the center of the catalog, you will also find a primer on the primary cilium, with details on Proteintech® antibodies recognizing the proteins involved in the generation and maintenance of this vital developmental structure.

This catalog is essentially a shortlist of around one quarter of the antibodies Proteintech has for developmental biology protein targets. If you can't find an antibody to your target of choice here, we're confident that with over 2,000 primary antibodies relating to development in the complete Proteintech inventory you'll find what you're looking for online at www.ptglab.com.

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THE BENCHMARK IN ANTIBODIES

Since the day it was founded, Proteintech has been making all of its products to the highest standards possible whilst taking complete responsibility for the quality of each product.

- Proteintech makes every single antibody in its 12,000+ catalog.
- Each Proteintech product is unique and cannot be bought under a different label.
- Antibodies are tested with siRNA treated samples to demonstrate specificity.
- It works in every single species and application or get a full money-back refund.

Proteintech has over 12,000 antibodies in its extensive catalog, all fully validated and available for next day delivery.



FOCUS ARTICLES

Antibodies For Cilia Development

By Deborah Grainger

The primary cilium acts as a sensory organelle that transfers information from the environment to the cell interior. Once thought of as an evolutionary artifact, this organelle is now understood to be crucial for regulating important cellular processes, including the cell cycle, cytoskeletal organization, intraflagellar transport and signaling pathways such as hedgehog, notch and canonical and non-canonical Wnt/planar cell polarity (PCP) pathways. Proteintech has over 70 antibodies recognizing cilia-related proteins in its catalog. This article reviews a selection of these targeting proteins involved in cilia development, or ciliogenesis...

CP110

Catalog Number
12780-1-AP

Type
Rabbit Polyclonal

Applications
ELISA, FC, IF, IHC, IP, WB

34 Publications

KD/KO Validated

CP110, also named CCP110 or KIAA0419, is a 110 kDa centriolar protein, not to be confused with CEP110 (centriolin). CP110 positively regulates centriole duplication while restricting centriole elongation and ciliogenesis. It acts as a key negative regulator of ciliogenesis in collaboration with CEP97 by capping the mother centriole, thereby preventing cilia formation.

The Proteintech antibody anti-CP110 (12780-1-AP) has appeared in several publications since its first appearance in Nature Cell Biology in mid-2012. In this paper the authors describe CP110's regulation by the microRNA miR-129-3p (M129). The Proteintech anti-CP110

antibody was utilized for Western blotting (WB) and immunofluorescence studies looking at the impact of blocking or upregulating M129 on ciliogenesis and cilia elongation. Cilia formation was inhibited when M129 levels were depleted, and, conversely, potentially upregulated with M129 overexpression. Correspondingly, WB experiments showed that CP110 protein levels were depleted in the presence of overexpressed M129. Several other Proteintech antibodies were also used by the authors for this work, including those targeting housekeeping protein GAPDH (60004-1-Ig), the actin nucleation protein ARP2 (10922-1-AP) and actin binding LIM protein 1 (ABLIM1, 15129-1-AP).



Immunohistochemical of paraffin-embedded human prostate cancer using CP110 antibody (12780-1-AP) at a dilution of 1:100 (10x objective).

IFT88

Catalog Number
13967-1-AP

Type
Rabbit Polyclonal

Applications
ELISA, IF, IHC, IP, WB

102 Publications

KD/KO Validated

IFT88 (intraflagellar transport protein 88; also known as TG737 or TTC10) is a component of IFT particles required for cilium biogenesis. Along with other molecular motors and IFT particles, IFT88 helps mediate intraflagellar transport, an important process essential for the assembly and maintenance of both primary and motile cilia and flagella in many organisms. IFT88 also localizes to spindle poles during mitosis and is required for spindle orientation. Defects in IFT88 lead to polycystic kidney disease, characterized by progressive cyst development and bilaterally enlarged kidneys.

Proteintech's polyclonal IFT88 antibody (13967-1-AP) has appeared in over 40 publications to date, recently appearing in Nature Cell Biology in June 2014. The paper looks at the role of another protein, Kif7, in mammalian Hedgehog (Hh) signaling and cilium tip organization, but utilizes anti-IFT88 as a marker for cilium retraction along with acetylated tubulin in immunofluorescence staining. The IFT88 signal outlines the original shape of the cilium, while acetylated tubulin marks the shrinking microtubules of the retreating cilium.

The Proteintech polyclonal IFT88 antibody was raised against the C-terminal region of human IFT88 and can detect endogenous levels of IFT88.

Acetylated α -tubulin (K40)

Catalog Number
66200-1-Ig

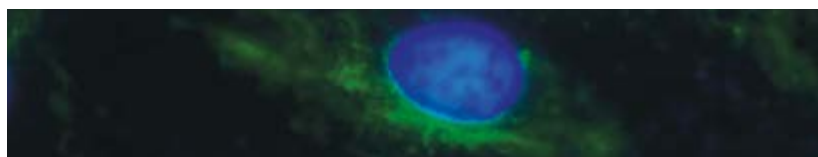
Type
Mouse Monoclonal

Applications
ELISA, IF, IHC, WB

4 Publications

The acetylation of K40 on α -tubulin is a hallmark of stable microtubules, and anti-acetylated α -tubulin (anti-ace tubulin) is the antibody of choice for researchers wishing to perform control immunofluorescence staining of stable cilia. The acetylated residue of α -tubulin is K40, which is catalyzed by α -tubulin acetyl-transferase (α -TAT).

Proteintech's anti-ace tubulin (K40) antibody (66200-1-Ig) can be used to reliably mark the cilium; as mentioned previously, it can also be used to gauge cilium retraction in tandem with IFT88.



Immunofluorescent analysis of MDCK cells using TUBA1A (ace-40Lys) antibody (66200-1-Ig) at a dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG (H+L).

ARL13B

Catalog Number
17711-1-AP

Type
Rabbit Polyclonal

Applications
ELISA, IF, IHC, IP, WB

114 Publications

KD/KO Validated

ARL13B, (also named ARL2L1), is a small ciliary G protein of the Ras superfamily. Localized to cilia, it is required for cilium biogenesis as well as sonic hedgehog signaling and antibodies targeting ARL13B can be used to mark the cilium (PMID:22072986). Defects in ARL13B lead to Joubert syndrome (JBTS), an autosomal recessive disorder characterized by malformation of the cerebellum. Consequentially JBTS patients lack muscle control and tone, among other defects.

Proteintech's anti-ARL13B antibody (17711-1-AP) has featured in 30 peer-reviewed publications to date, including

one that further investigates its interaction with the phosphatase inositol polyphosphate-5-phosphatase E (INPP5E) – another JBTS-causing protein when mutated. Along with a C-terminal motif and prenylation signals, ciliary targeting of INPP5E is facilitated by ARL13B. ARL13B missense mutations that cause JBTS in humans disrupt the ARL13B–INPP5E interaction. The paper, which appeared in PNAS at the end of 2012, identifies several more centrosomal and ciliary proteins involved in ARL13B–INPP5E interactions, and found that this functional network of proteins is also involved in JBTS and the related ciliopathy nephronophthisis.

BBS2

Catalog Number
11188-2-AP

Type
Rabbit Polyclonal

Applications
ELISA, IF, IHC, IP, WB

7 Publications

No information is available regarding the specific function of Bardet-Biedl syndrome (BBS) protein 2, but it is known to be one of the seven BBS proteins that form the stable core of the BBSome. The BBSome is a component of the ciliary basal body and is integral to the formation of a functional primary cilium as mutations in BBS proteins, as well as several others, lead to their eponymous syndrome BBS. BBS is a heterogeneous, pleiotropic human disorder characterized by obesity, retinopathy, polydactyly, renal and cardiac malformations, learning disabilities, hypogenitalism, and an increased incidence of diabetes and hypertension.

Proteintech's BBS2 antibody (11188-2-AP) has appeared in several publications since its addition to the catalog. One of these appearances, in the Journal Cell, describes how the BBSome establishes an electron-rich coat complex that sorts membrane proteins to primary cilia, including the somatostatin receptor 3 (SSTR3) signaling molecule. The BBSome coat model suggested by the authors could explain the variety of symptoms found in BBS patients: likely resulting from the failure to transport signaling receptors to the cilium through the lack of a stable BBSome – though in the case of SSTR3, its exact role in BBS is unclear.



IF result (cilia stain) of anti-BBS2 (11188-2-AP, 1:50) with serum-starved hTERT-RPE1 cells by Dr. Moshe Kim.

Investigating Kidney Development With Proteintech's SIX2 Antibody

By Ashley Juavinett

Most likely, you've got two kidneys, each composed of functional units known as nephrons, convoluted loops of epithelial tissue that are constantly working to filter your blood and produce urine. You might have 200,000 of these nephrons, or you might have 2 million – the more, the better. Unfortunately, eating your veggies and getting exercise won't give you more nephrons: nephrogenesis ends by 36 weeks of gestation, meaning that the final number of nephrons in each kidney is established before you're even born. So what does determine if you're well endowed with lots of nephrons?

While the coarse progression of kidney development is fairly well understood, the highly orchestrated pattern of genes and proteins that directs this complex process and the generation of each of your nephrons is still a bit of a mystery. Step by step, researchers are pulling apart pathways of genes that regulate renal development. One of these genes, *Six2*, has been implicated in a variety of developmental processes, from limb to eye development. Here, we take a look at a recent set of literature suggesting that *Six2* has a crucial role in kidney development, research enabled, in part, by the Proteintech *Six2* antibody.

As it turns out, *Six2* marks renal progenitor cells, and is therefore a useful way to distinguish between two major developmental parts of the kidney – the ureteric bud (UB) and the nephrogenic "cap" mesenchyme (CM). Nephrons develop from these progenitor cells in the CM, which surround the branching UB structure. A recent study used this fact, and Proteintech's *Six2* antibody, to differentiate between the CM and UB compartments and quantify tissue dynamics in the developing kidney (Short et al., 2014). In a renal tour-de-force, these researchers describe the spatial and cellular development of the kidney, showing that kidney morphogenesis is not a simple, iterative process. Future studies will be able to build on their methodologies to compare renal development across disease models.

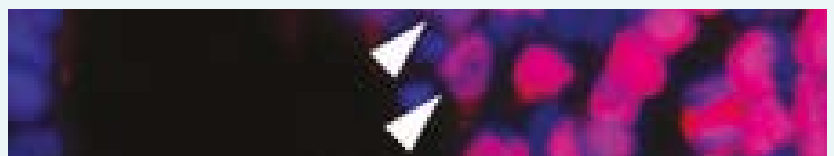
Using microfluidic/robotic tools coupled with RNA-seq (and once again, Proteintech's *Six2* antibody), another group of researchers obtained single cell details about gene expression in early kidney development (Brunskill et al., 2014). To their surprise, they found that *Six2* was transcribed alongside *Foxd1*, another protein that is involved in a separate developmental pathway. This suggests that initial stages of organogenesis involve priming cells for multiple lineages, followed by turning off most of these genes. As gene regulation largely happens via epigenetic mechanisms,

another study examined the chromatin landscape of nephron progenitors, showing that these cells have a broad methylation signature (McLaughlin et al., 2013).

As in most biological processes, kidney development is a careful balance of genes and molecules, with deliberate timing. If one link in the chain is altered, proper development is at risk. For instance, a group of researchers at Columbia recently showed that if you reduce the number of progenitors via genetic ablation, UB branching changes and there is a permanent nephron deficit (Cebrian et al., 2014). In addition, there are a host of necessary genes that are often expressed alongside *Six2*. One gene, *Sall1*, has been shown to have a partially-overlapping mechanism of promoting nephrogenesis, and deletion of this gene results in severe progenitor depletion and apoptosis of neighboring differentiating nephrons (Kanda et al., 2014). On the other hand, if you overexpress a regulating gene known as *Lin28*, you could induce tumor growth (Urbach et al., 2014). These studies, and many others like them, used Proteintech's *Six2* antibody to identify renal progenitors and shed some light on kidney development.

For promising clinical applications of this developmental research, several groups are working to induce kidney progenitors from human embryonic stem cells. By demonstrating that their cells express *Six2*, as well as other early genes, the researchers can be sure that they have bona fide kidney progenitors. In 2013, an international team of researchers showed that they could generate UB progenitor-like cells from human pluripotent cells (Xia et al., 2013). Remarkably, a subsequent study showed that these cells reintegrated with mouse kidney cells and self-organized into 3D structures, suggesting that stem cell derived renal tissue therapeutic potential (Takasato et al., 2014). So, even if you don't have a plethora of nephrons, someday science may be able to help you generate some more!

You can place your order online, by email, or fax.



After generating kidney progenitor cells from hESCs, the researchers showed that these cells could re-integrate with mouse kidney cells. White arrowheads indicate hESCs that have integrated into mouse renal structures. Modified from Takasato et al., 2014.

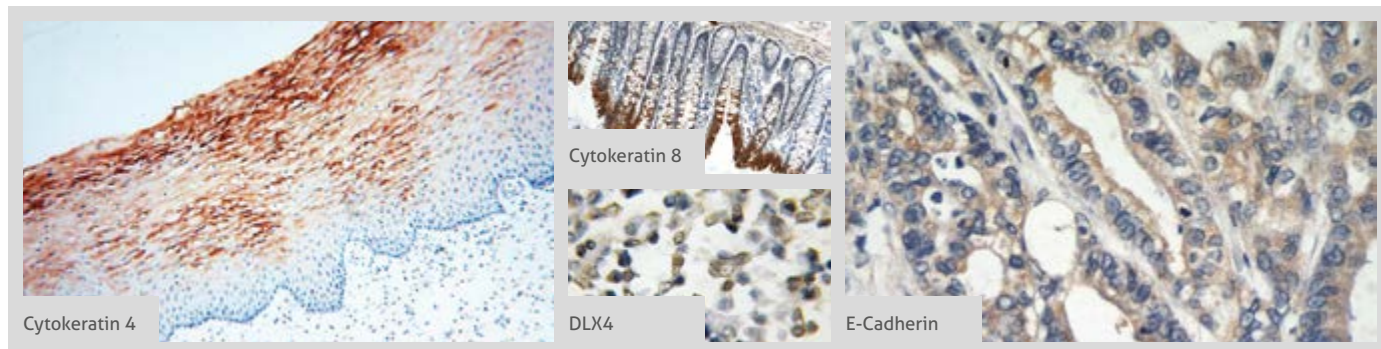
ANTIBODY PRODUCT LIST

Antibody Name	Cat. No.	Type	Applications
ABLIM1	15129-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
ABLIM2	22433-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
ADAM17-Specific	20259-1-AP	Rabbit Poly	ELISA, IHC, WB
ADAM19	22216-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
AKT1	53 10176-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, IP, WB
AKT1	60203-1-Ig	Mouse Mono	ELISA, FC, IF, IHC, IP, WB
AKT1	60203-2-Ig	Mouse Mono	ELISA, IF, IHC, IP, WB
AKT1	51077-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
ALX3	22358-1-AP	Rabbit Poly	ELISA, WB
AMOT	16870-1-AP	Rabbit Poly	ELISA, WB
AMOTL1	2 16871-1-AP	Rabbit Poly	ELISA, WB
Angiogenin	18302-1-AP	Rabbit Poly	ELISA, IHC, WB
Angiopoietin 1	23302-1-AP	Rabbit Poly	ELISA, IF, WB
ANGPTL1	14709-1-AP	Rabbit Poly	ELISA, IHC, WB
ANGPTL2	2 12316-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
AP2A1	2 11401-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
APC	19782-1-AP	Rabbit Poly	ELISA, IHC
APH1A	11643-1-AP	Rabbit Poly	ELISA, WB
APP	10524-1-AP	Rabbit Poly	ELISA, WB
Arrestin (beta 1)	2 15361-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
Arrestin (beta 2)	2 10171-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
ATR	3 19787-1-AP	Rabbit Poly	ELISA, WB
AXIN1	2 16541-1-AP	Rabbit Poly	ELISA, WB
AXIN2	20540-1-AP	Rabbit Poly	ELISA, WB
AXUDI	18162-1-AP	Rabbit Poly	ELISA, WB
BAI2-Specific	19680-1-AP	Rabbit Poly	ELISA, IHC

Antibody Name	Cat. No.	Type	Applications
BAI3-Specific	19789-1-AP	Rabbit Poly	ELISA, WB
BARHL2	23976-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
BAX	156 50599-2-Ig	Rabbit Poly	ELISA, FC, IF, IHC, IP, WB
BAX	3 60267-1-Ig	Mouse Mono	ELISA, IF, IHC, WB
BAX	11 23931-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
BDNF	5 25699-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
BDNF	17465-1-AP	Rabbit Poly	ELISA
beta-Catenin	43 51067-2-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
BHLHE40	17895-1-AP	Rabbit Poly	ELISA, IP, WB
BHLHE41	12688-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
BLOC1S1-specific	19687-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
BMI1	4 10832-1-AP	Rabbit Poly	ChIP, CoIP, ELISA, IF, IHC, IP, WB
BMI1	66161-1-Ig	Mouse Mono	ELISA, IF, IHC, IP, WB
BMP2	9 18933-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
BMP4	12492-1-AP	Rabbit Poly	ELISA, IHC, WB
BMP7	2 12221-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
BMP10	22858-1-AP	Rabbit Poly	ELISA, WB
BMP15	18982-1-AP	Rabbit Poly	ELISA, IHC, WB
BMPR2	14376-1-AP	Rabbit Poly	ELISA, IP, WB
BRN2	14596-1-AP	Rabbit Poly	ELISA, IHC, WB
BRN2-Specific	18998-1-AP	Rabbit Poly	ELISA, IHC, WB
CBX4	18544-1-AP	Rabbit Poly	ELISA, IF, WB
CDK1	16 19532-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
CDK1	10762-1-AP	Rabbit Poly	ELISA, WB
CDKN2A/P16-INK4A	26 10883-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, IP, WB

CDKN2D/P19-INK4D
 → EPHA1-specific

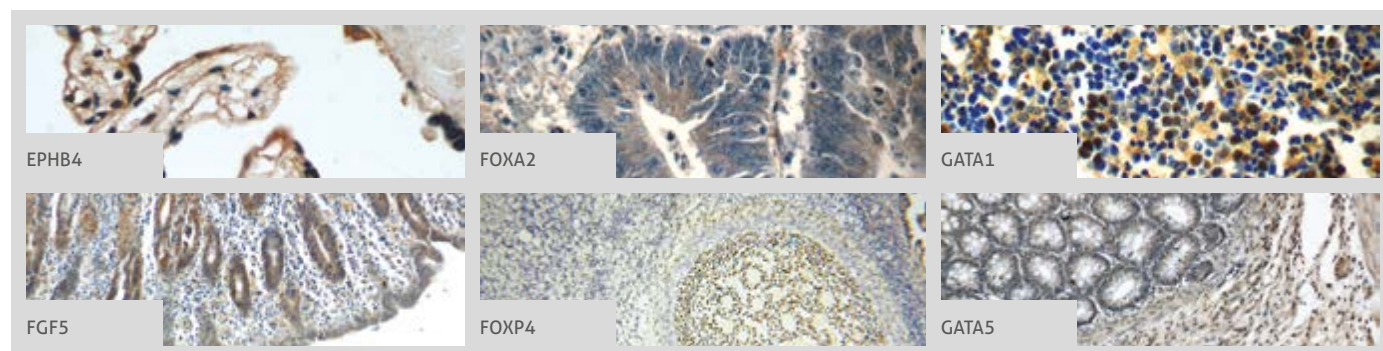
More validation images available on our website.



Antibody Name	Cat. No.	Type	Applications
CDKN2D/P19-INK4D	10272-2-AP	Rabbit Poly	ELISA, IF, IHC, WB
CDO1	12589-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
CDON	17634-1-AP	Rabbit Poly	ELISA, WB
CDX2	60243-1-Ig	Mouse Mono	ELISA, WB
CDX4	22943-1-AP	Rabbit Poly	ELISA, WB
CEBPG	12997-1-AP	Rabbit Poly	ELISA, IF, WB
CK1 delta	2 14388-1-AP	Rabbit Poly	ELISA, IF, IP, WB
CRX	12047-1-AP	Rabbit Poly	CoIP, ELISA, IP, WB
CSNK1A1L	17125-1-AP	Rabbit Poly	ELISA, IHC, WB
CTBP1	10972-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
CTNBL1	13665-1-AP	Rabbit Poly	ELISA, IHC, WB
CUX1	2 11733-1-AP	Rabbit Poly	ELISA, IF, IP, WB
CUX2	24902-1-AP	Rabbit Poly	ELISA, WB
CXCL8/IL8	2 60141-2-Ig	Mouse Mono	ELISA, IHC, WB
CXCL8/IL8	17038-1-AP	Rabbit Poly	ELISA, IHC
CYLD	3 11110-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
Cytokeratin 1-specific	16848-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
Cytokeratin 4	16572-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
Cytokeratin 6A	10590-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, WB
Cytokeratin 6A-specific	16853-1-AP	Rabbit Poly	ELISA, IP, WB
Cytokeratin 6B	17391-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
Cytokeratin 7	22208-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, WB
Cytokeratin 7-specific	6 17513-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
Cytokeratin 8	10384-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, WB
Cytokeratin 8	60274-1-Ig	Mouse Mono	ELISA, IHC, WB
Cytokeratin 80	16835-1-AP	Rabbit Poly	ELISA, IHC, WB
Cytokeratin 81	11342-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
DAAM1	14876-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
DACH2	25219-1-AP	Rabbit Poly	ELISA, WB
DDX1	2 11357-1-AP	Rabbit Poly	ELISA, IHC, IP, WB

Antibody Name	Cat. No.	Type	Applications
DDX25	14370-1-AP	Rabbit Poly	ELISA, IP, WB
DDX5, p68	10804-1-AP	Rabbit Poly	ELISA, IHC, WB
Decorin	14667-1-AP	Rabbit Poly	ELISA, IHC, WB
DHH	13889-1-AP	Rabbit Poly	ELISA, WB
DISC1-long-specific	15500-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
DISP1	12041-1-AP	Rabbit Poly	ELISA, WB
DKK1	2 21112-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
DKK2	21051-1-AP	Rabbit Poly	ELISA, IHC, WB
DKK3	6 10365-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, WB
DLG5	15687-1-AP	Rabbit Poly	ELISA, WB
DLK1	9 10636-1-AP	Rabbit Poly	ELISA, FC, IHC, WB
DLK2	15680-1-AP	Rabbit Poly	ELISA, WB
DLL1-Specific	20230-1-AP	Rabbit Poly	ELISA, WB
DLX1	13046-1-AP	Rabbit Poly	ELISA, WB
DLX3	13261-3-AP	Rabbit Poly	ELISA, IHC, WB
DLX4	12084-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
DLX5	2 10592-1-AP	Rabbit Poly	ELISA, IHC, WB
DTX1	18350-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
DTX2	18565-1-AP	Rabbit Poly	ELISA, IHC
DTX3	25304-1-AP	Rabbit Poly	ELISA, IHC, WB
DTX3L	11963-1-AP	Rabbit Poly	ELISA, WB
DTX4	25222-1-AP	Rabbit Poly	ELISA, IF, WB
DVL2	12037-1-AP	Rabbit Poly	ELISA, IF, IP, WB
DVL3	13444-1-AP	Rabbit Poly	ELISA, IF, IP, IHC
E-Cadherin	3 20648-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, WB
EDIL3	7 12580-1-AP	Rabbit Poly	ELISA, IHC, WB
EGFL7	19291-1-AP	Rabbit Poly	ELISA, IHC, WB
Endoglin/CD105	3 10862-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
Endostatin	18301-1-AP	Rabbit Poly	ELISA, IHC, WB
EPHA1-specific	18698-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, IP, WB

More validation images available on our website.



Antibody Name	Cat. No.	Type	Applications
EPHA4	21875-1-AP	Rabbit Poly	ELISA, FC, IF, IP, WB
EPHA7	13119-1-AP	Rabbit Poly	ELISA
EPHA8	13724-1-AP	Rabbit Poly	ELISA, FC, WB
EPHB4	20883-1-AP	Rabbit Poly	ELISA, FC, IHC, WB
Ephrin A3	12480-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
Ephrin A4	19685-1-AP	Rabbit Poly	ELISA, WB
Ephrin B1	12999-1-AP	Rabbit Poly	ELISA, WB
ESX1	14657-1-AP	Rabbit Poly	ELISA, IP, WB
EYA1	22658-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
EYA2	11314-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
EYA3	21196-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
EYA4	24691-1-AP	Rabbit Poly	ELISA, IF, WB
FGF1	17400-1-AP	Rabbit Poly	ELISA, IHC
FGF12	60152-1-Ig	Mouse Mono	ELISA, WB
FGF13	13201-1-AP	Rabbit Poly	ELISA, IHC, WB
FGF5	18171-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
FGFR1	60325-1-Ig	Mouse Mono	ELISA, FC, IHC, WB
FGFR2	13042-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
FGFR4	11098-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
FGL2	11827-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
FOXA1	20411-1-AP	Rabbit Poly	ELISA, IHC, WB
FOXA2	22474-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
FOXB1	24285-1-AP	Rabbit Poly	ELISA, WB
FOXC2	23066-1-AP	Rabbit Poly	ELISA, WB
FOXD4	24835-1-AP	Rabbit Poly	ELISA, WB
FOXD4L6	22081-1-AP	Rabbit Poly	ELISA, WB
FOXE3	55301-1-AP	Rabbit Poly	ELISA, WB
FOXG1	12764-1-AP	Rabbit Poly	ELISA, WB
FOXH1-Specific	20268-1-AP	Rabbit Poly	ELISA, WB
FOXJ3	21240-1-AP	Rabbit Poly	ELISA, WB
FOXM1	13147-1-AP	Rabbit Poly	ELISA, IHC, IP, WB

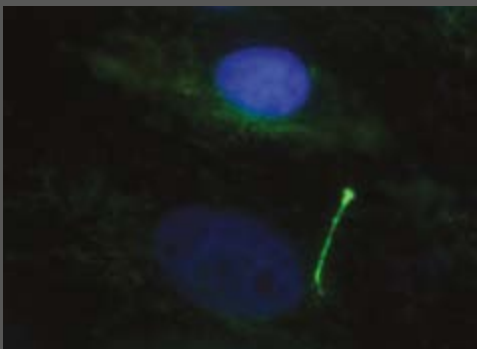
Antibody Name	Cat. No.	Type	Applications
FOXO1	18592-1-AP	Rabbit Poly	ELISA, FC, IHC, WB
FOXO3A	10849-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
FOXO4	21535-1-AP	Rabbit Poly	ELISA, IHC, WB
FOXP1	22051-1-AP	Rabbit Poly	ELISA, WB
FOXP2	20529-1-AP	Rabbit Poly	ELISA, IP, WB
FOXP3	22228-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
FOXP4	16772-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
FOXQ1	23718-1-AP	Rabbit Poly	ELISA, WB
FOXR1	21942-1-AP	Rabbit Poly	ELISA, WB
Frizzled 10	18175-1-AP	Rabbit Poly	ELISA, IHC, WB
Frizzled 2	24272-1-AP	Rabbit Poly	ELISA, WB
Frizzled 5	21519-1-AP	Rabbit Poly	ELISA, IP, WB
Frizzled 7	16974-1-AP	Rabbit Poly	ELISA, IP, WB
Frizzled 8	55093-1-AP	Rabbit Poly	ELISA, WB
Frizzled 9	13865-1-AP	Rabbit Poly	ELISA, WB
FRZB	12884-1-AP	Rabbit Poly	ELISA, IHC, WB
FZD5	21519-1-AP	Rabbit Poly	ELISA, IP, WB
GATA1	60011-1-Ig	Mouse Mono	ELISA, IP, WB
GATA1	10917-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
GATA2	11103-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
GATA3	10417-1-AP	Rabbit Poly	ChIP, ELISA, IHC, WB
GATA3	22343-1-AP	Rabbit Poly	ELISA, WB
GATA4-Specific	19530-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
GATA5	55433-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
GATA6	55435-1-AP	Rabbit Poly	ELISA, WB
GESX1	55050-1-AP	Rabbit Poly	ELISA, WB
GLI2-Specific	18989-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
GLI3-Specific	19949-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, IP, WB
GSK3A	13419-1-AP	Rabbit Poly	ELISA, IHC, WB
GSK3B	22104-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB

ANTIBODIES FOR CILIA MARKERS

Antibody	Cat.No
IFT B Complex	
IFT20	13615-1-AP
IFT27/RABL4	15017-1-AP
IFT52	17534-1-AP
IFT57	11083-1-AP
IFT80	25230-1-AP
IFT81	10604-2-AP
IFT81	11744-1-AP
IFT88	13967-1-AP
IFT A Complex	
IFT43	24338-1-AP
IFT122/WDR10	19304-1-AP
IFT140	17460-1-AP
IFT144/WDR19	13647-1-AP
Basal Body	
BBS1	21118-1-AP
BBS2	11188-2-AP
BBS3/ARL6	12676-1-AP
BBS4	12766-1-AP
BBS5	14569-1-AP
BBS6/MKKS	13078-1-AP
BBS7	18961-1-AP
BBS8/TTC8	12505-1-AP
BBS9	14460-1-AP
BBS10	12421-2-AP
MKS1/BBS13	16206-1-AP
SDCCAG8/ BBS16/NPHP10	13471-1-AP
TRIM32/BBS11	10326-1-AP
NPHP proteins	
ATXN10	15693-1-AP
NPHP2/Inversin (INVS)	10585-1-AP
NPHP3/MKS7	22026-1-AP
NPHP4/ Nephrocystin 4	13812-1-AP
NPHP5/IQCB1	15747-1-AP
NPHP6/Cep290	22490-1-AP
NPHP8/ RPGRIPL1	55160-1-AP
NPHP10/ SDCCAG8/ BBS16	13471-1-AP
MKS proteins	
MKS1	16206-1-AP
MKS3/TMEM67	13975-1-AP
MKS4/CEP290	22490-1-AP
MKS5/ RPGRIPL1/ NPHP10	55160-1-AP
MKS6/CC2D2A	22293-1-AP

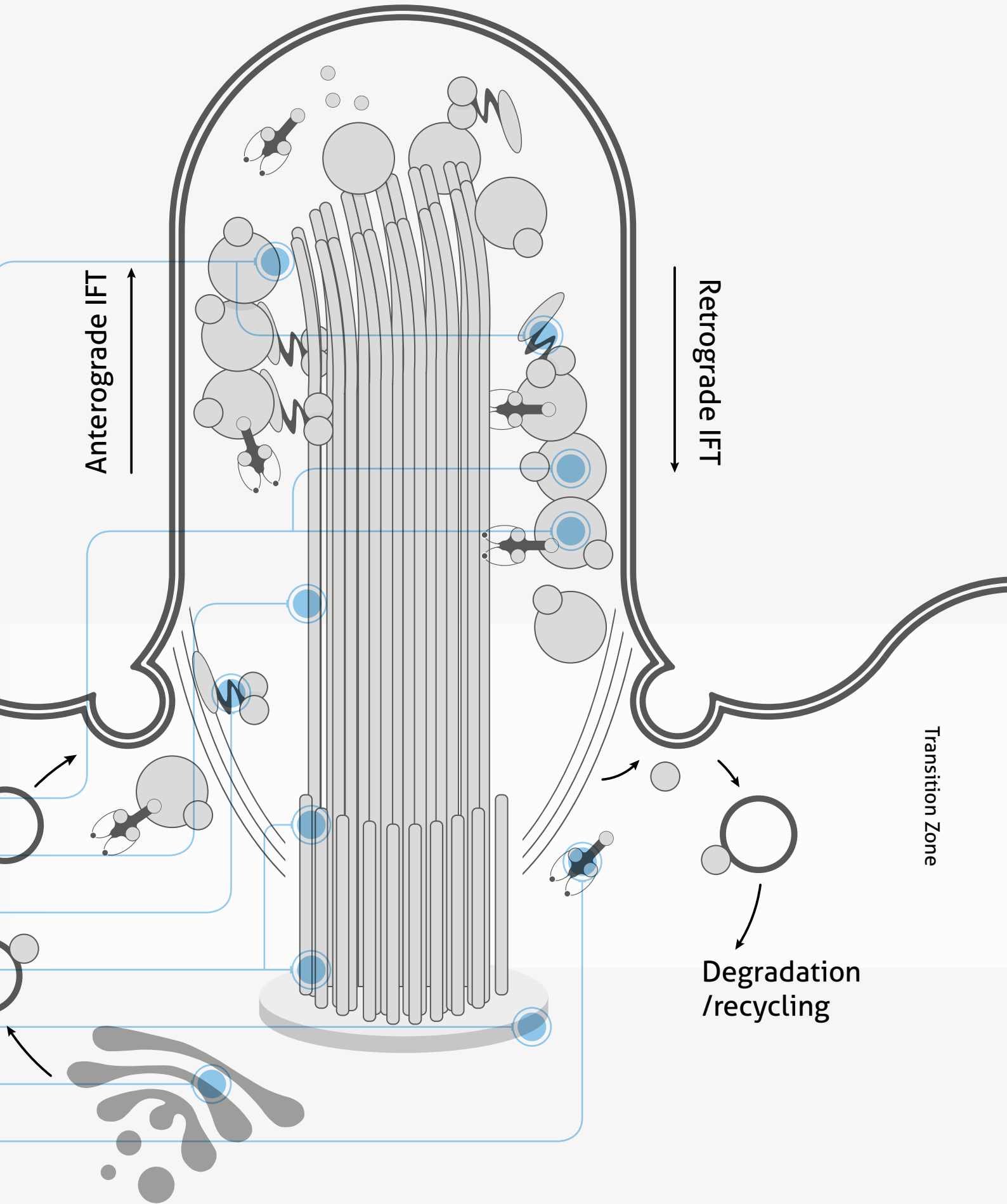
Antibody	Cat.No
Other transition zone proteins	
CC2D2A/MKS6	22293-1-AP
CEP290/NPHP6	22490-1-AP
MKS1/BBS13	16206-1-AP
TCTN1	15004-1-AP
TCTN2/MKS8	17053-1-AP
TCTN3	16085-1-AP
TMEM67/MKS3	13975-1-AP
Centrosome	
CENJP	11517-1-AP
Centrin 1	12794-1-AP
Centrin 2	15877-1-AP
Centriolin/ CEP110	25235-1-AP
CEP57	24957-1-AP
CEP97	22050-1-AP
CEP152	21815-1-AP
CEP164	22227-1-AP
EB1	17717-1-AP
NUP85/ Pericentrin 1	19370-1-AP
PCM-1	19856-1-AP
Other cilia-related proteins	
CP110	12780-1-AP
CSPP1	11931-1-AP
DISC1	15500-1-AP
KIF2A	13105-1-AP
KIF3A	13930-1-AP
NDE1	10233-1-AP
NUP85/ Pericentrin 1	19370-1-AP
ODF2	12058-1-AP
RPGR/RP3	16891-1-AP
septin 2	11397-1-AP
septin 2	60075-1-Ig
General cilia marker proteins	
AC3	19492-1-AP
ARL13B	17711-1-AP
Joubert syndrome-related proteins	
AHI1	22045-1-AP
CEP290	22490-1-AP
TMEM67	13975-1-AP

General cilia markers



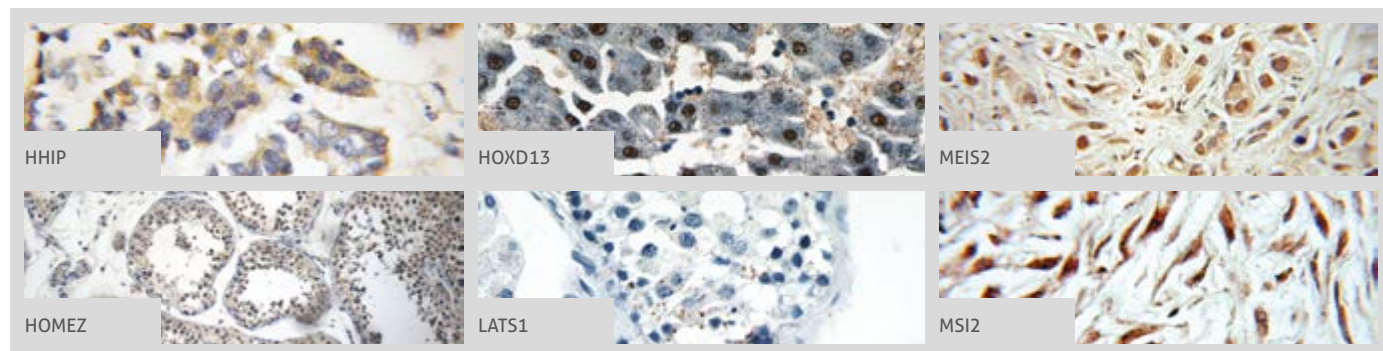
Immunofluorescence staining of MDCK cells with anti-acetylated tubulin (TUBA1Aace-40Lys) monoclonal antibody (66200-1-Ig; 1:50), detected with Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse secondary antibody (green). Acetylated tubulin locates exclusively to cilia, making this antibody a great immunological tool for control staining of cilia.

- Plasma Membrane
- IFT Complexes
- Cargo
- Microtubules
- Kinesin
- Basal Body
- Centriole
- Golgi
- Dynein



GSK3B
→ NEDD4

More validation images available on our website. 

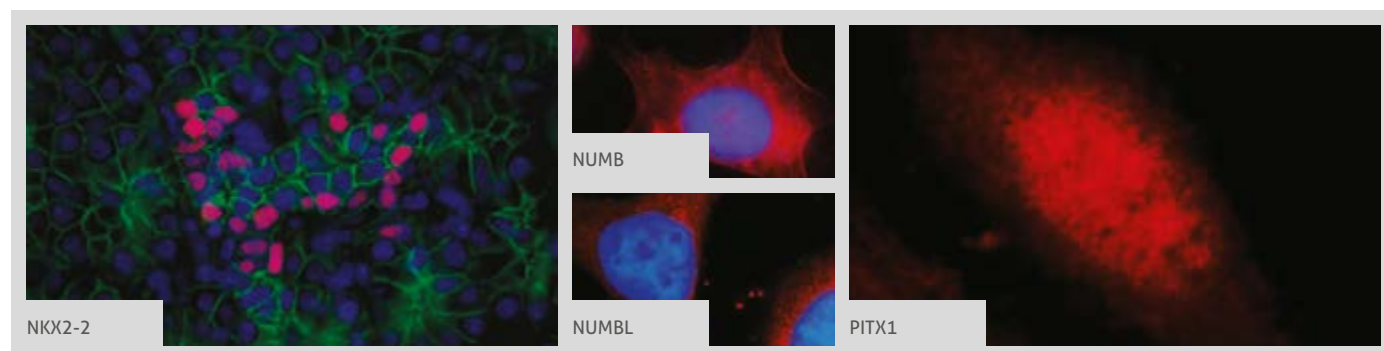


Antibody Name	Cat. No.	Type	Applications
GSK3B	24198-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, IP, WB
GSK3B	51065-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
HAT1	 11432-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
HDAC1	16160-1-AP	Rabbit Poly	ELISA, IF, IP, WB
HDAC2	66085-1-Ig	Mouse Mono	ELISA, IF, IHC, WB
HESX1	17927-1-AP	Rabbit Poly	ELISA, IHC
HHIP	 11654-1-AP	Rabbit Poly	ELISA, IHC, WB
HLX	14336-1-AP	Rabbit Poly	ELISA, IHC, WB
HMBOX1	16123-1-AP	Rabbit Poly	ELISA, IP, WB
HNF1A	22426-1-AP	Rabbit Poly	ELISA, IP, WB
HNRNPU (p120)	16365-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, IP, WB
HOMEZ	 23965-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
HOPX	11419-1-AP	Rabbit Poly	ELISA, IP, WB
HOXA1	 13513-1-AP	Rabbit Poly	ELISA, IHC, WB
HOXA11	55495-1-AP	Rabbit Poly	ELISA, WB
HOXA2	25044-1-AP	Rabbit Poly	ELISA, WB
HOXA9	18501-1-AP	Rabbit Poly	ELISA, IP, WB
HOXB1	21653-1-AP	Rabbit Poly	ELISA, WB
HOXB1	18732-1-AP	Rabbit Poly	ELISA, WB
HOXB7	12613-1-AP	Rabbit Poly	ELISA, IF, WB
HOXC10	20632-1-AP	Rabbit Poly	ELISA, IF, WB
HOXC11	22118-1-AP	Rabbit Poly	ELISA, WB
HOXC4	14321-1-AP	Rabbit Poly	ELISA, IF, WB
HOXC8	15448-1-AP	Rabbit Poly	ELISA, WB
HOXD11	18734-1-AP	Rabbit Poly	ELISA, WB
HOXD12	18735-1-AP	Rabbit Poly	ELISA, WB
HOXD13	 18736-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
HOXD13	23520-1-AP	Rabbit Poly	ELISA, IF, WB
HOXD4	17780-1-AP	Rabbit Poly	ELISA, WB
IGF1A-Specific	 20214-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB

Antibody Name	Cat. No.	Type	Applications
IGF1B-Specific	20215-1-AP	Rabbit Poly	ELISA, IHC, WB
IHH	13388-1-AP	Rabbit Poly	ELISA, IHC, WB
IL-8	17038-1-AP	Rabbit Poly	ELISA, IHC
Islet 1	15661-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
JNK	 10023-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
JNK	 51151-1-AP	Rabbit Poly	ELISA, IF, IP, WB
KIF3A	 13930-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
LATS1	 17049-1-AP	Rabbit Poly	ELISA, IHC, WB
LATS2	20276-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, WB
LEF1	 14972-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
LHX5	21567-1-AP	Rabbit Poly	ELISA, WB
LMX1B	18278-1-AP	Rabbit Poly	ELISA, IF, WB
LRG1	 13224-1-AP	Rabbit Poly	ELISA, IHC, WB
LRP5	24899-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
MAGOH	 12347-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
MARK3	12932-1-AP	Rabbit Poly	ELISA, IP, WB
MEF2C-Specific	18293-1-AP	Rabbit Poly	ELISA, IHC
MEIS2	 11550-1-AP	Rabbit Poly	ELISA, IHC, WB
MEIS3	12775-1-AP	Rabbit Poly	ELISA, WB
MIB2	13696-1-AP	Rabbit Poly	ELISA, IP, WB
MIXL1	22772-1-AP	Rabbit Poly	ELISA, IF, WB
MOBKL1A	 12790-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
MOBKL1B	11669-1-AP	Rabbit Poly	ELISA, WB
MPP3	 14650-1-AP	Rabbit Poly	ELISA, IHC, WB
MPP5	 17710-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
MPP6	11575-1-AP	Rabbit Poly	ELISA, WB
MPP7	12983-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
MSI2	  10770-1-AP	Rabbit Poly	ELISA, IHC, WB
NANOG	 14295-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
NCOR1	20018-1-AP	Rabbit Poly	ELISA, IHC, WB
NEDD4	21698-1-AP	Rabbit Poly	ELISA, IHC, IP, WB

 This number shows the amount of times our antibody has been cited in a publication.

More validation images available on our website.

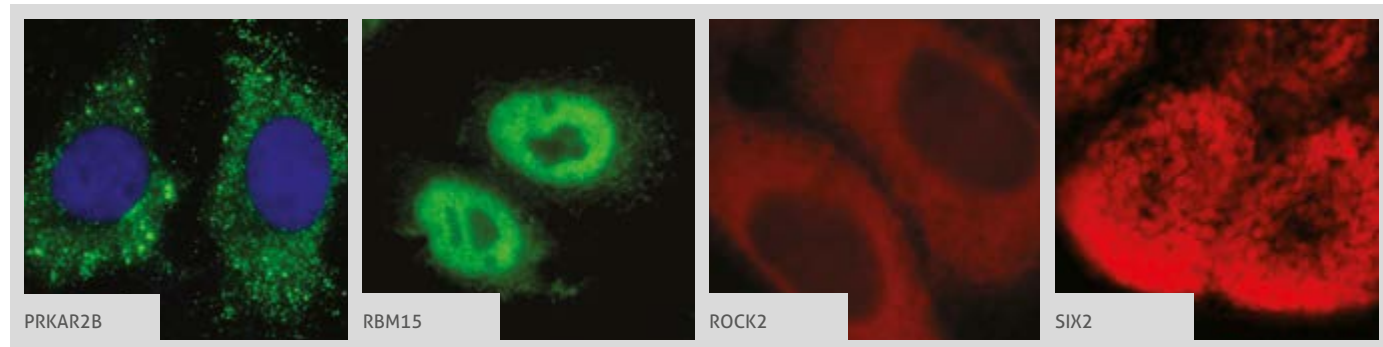


Antibody Name	Cat. No.	Type	Applications
NEURL	18898-1-AP	Rabbit Poly	ELISA, IP, WB
NEURL2	21263-1-AP	Rabbit Poly	ELISA, IHC, WB
NEURL3	16648-1-AP	Rabbit Poly	ELISA, IP
NF2	10659-1-AP	Rabbit Poly	ELISA, WB
NF2	21686-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
Nicastrin	14071-1-AP	Rabbit Poly	ELISA, IF, WB
NINJ2	14085-1-AP	Rabbit Poly	ELISA, WB
NKD2	16699-1-AP	Rabbit Poly	ELISA, WB
NKX1-2	55484-1-AP	Rabbit Poly	ELISA, IHC, WB
NKX2-2	13013-1-AP	Rabbit Poly	ELISA, IF, WB
NKX2-5	13921-1-AP	Rabbit Poly	ELISA, WB
NKX3-1	13069-1-AP	Rabbit Poly	ELISA, WB
Noggin	14772-1-AP	Rabbit Poly	ELISA, IHC, WB
NOTCH1	20687-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
NOTCH3	55114-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
NUMB	18701-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, WB
NUMB	55321-1-AP	Rabbit Poly	ELISA, WB
NUMB	60137-1-Ig	Mouse Mono	ELISA, IF, WB
NUMBL	10111-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
NUMBL	66155-1-Ig	Mouse Mono	ELISA, IHC, WB
OCT1	10387-1-AP	Rabbit Poly	ChIP, ELISA, IF, IHC, IP, WB
OCT2	10867-2-AP	Rabbit Poly	ELISA, IHC, IP, WB
OCT2-Specific	18996-1-AP	Rabbit Poly	ELISA, IHC, WB
OCT4	60242-1-Ig	Mouse Mono	ELISA, IHC, WB
Oct6-Specific	18997-1-AP	Rabbit Poly	ELISA, WB
ODZ1	21696-1-AP	Rabbit Poly	ELISA, WB
ONECUT1	25137-1-AP	Rabbit Poly	ELISA, IHC, WB
ONECUT2	21916-1-AP	Rabbit Poly	ELISA, IP, WB
OTX2	13497-1-AP	Rabbit Poly	ChIP, ELISA, FC, IHC, IP, WB
Pan-PAX	21383-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB

Antibody Name	Cat. No.	Type	Applications
PAX1-Specific	60217-1-Ig	Mouse Mono	ELISA, WB
PAX3	21386-1-AP	Rabbit Poly	ELISA, IP, WB
PAX3	51036-2-AP	Rabbit Poly	ELISA, WB
PAX4	66064-2-Ig	Mouse Mono	ELISA, WB
PAX6	12323-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, WB
PAX7	20570-1-AP	Rabbit Poly	ELISA, WB
PAX7	60236-1-Ig	Mouse Mono	ELISA, IHC
PAX8	10336-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, IP, WB
PAX8	60145-4-Ig	Mouse Mono	ELISA, IHC, WB
PAX8-Specific	66073-1-Ig	Mouse Mono	ELISA, IHC, WB
PBX1	18204-1-AP	Rabbit Poly	ELISA, IF, IP, WB
PBX3	12571-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
PBX4	22323-1-AP	Rabbit Poly	ELISA, WB
PCAF	13983-1-AP	Rabbit Poly	ELISA, IHC, IP
PCDH1	13645-1-AP	Rabbit Poly	ELISA, WB
PCDH11Y	20069-1-AP	Rabbit Poly	ELISA, WB
PCDH9	25090-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
PCDHA2	10127-2-AP	Rabbit Poly	ELISA, IP, WB
PCDHA3	18803-1-AP	Rabbit Poly	ELISA, IHC, WB
PCDHA5	15270-1-AP	Rabbit Poly	ELISA, IHC, WB
PCDHA6	12853-1-AP	Rabbit Poly	ELISA, WB
PCDHB12	14020-1-AP	Rabbit Poly	ELISA, WB
PCDHB5	19609-1-AP	Rabbit Poly	ELISA, WB
PHOX2A	25804-1-AP	Rabbit Poly	ELISA, IF, WB
PHOX2B	25276-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
PITX1	10873-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
PITX2	11106-1-AP	Rabbit Poly	ELISA
PKNOX1	10614-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
plasminogen	16776-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
POU3F3-Specific	18999-1-AP	Rabbit Poly	ELISA, IHC, WB
POU3F4	25114-1-AP	Rabbit Poly	ELISA, WB

POU4F2
→ STK4/MST1

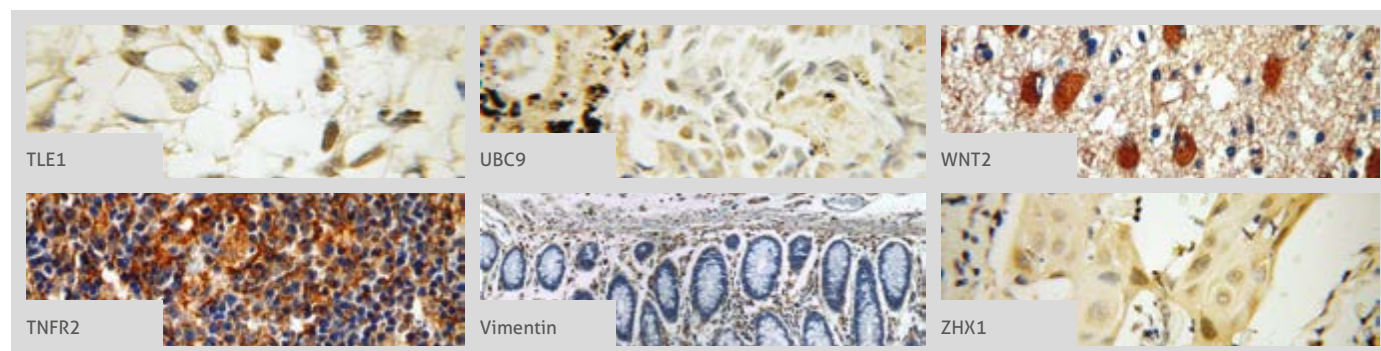
More validation images available on our website. 



Antibody Name	Cat. No.	Type	Applications
POU4F2	55042-1-AP	Rabbit Poly	ELISA, IF, WB
PP2A	2 10321-1-AP	Rabbit Poly	ELISA, IHC, WB
Presenilin-1	16163-1-AP	Rabbit Poly	ELISA, IP, WB
Presenilin-2	16168-1-AP	Rabbit Poly	ELISA, IHC
PRICKLE1	22589-1-AP	Rabbit Poly	ELISA, IP, WB
PRICKLE3	19098-1-AP	Rabbit Poly	ELISA, IHC, WB
PRKACB	12232-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
PRKAR2B	 20845-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
PROX1	8 51043-1-AP	Rabbit Poly	ChIP, CoIP, ELISA, IF, IHC, WB
PROX1	4 11067-2-AP	Rabbit Poly	ChIP, ELISA, FC, IF, IHC, WB
PTCH1	10 17520-1-AP	Rabbit Poly	ELISA, IHC, WB
PTCH2	55091-1-AP	Rabbit Poly	ELISA, IHC, WB
RAC1	20571-1-AP	Rabbit Poly	ELISA, IF
RAC1	10 24072-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
RANKL/OPGL	23408-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
RARB	14013-1-AP	Rabbit Poly	ELISA, IF, IHC
RARG	2 11424-1-AP	Rabbit Poly	ChIP, ELISA, IP, WB
RBM15	 9 10587-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
RBP2	18825-1-AP	Rabbit Poly	ELISA, IF, WB
RBPJ	14613-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
RBPJ	66132-1-Ig	Mouse Mono	ELISA, WB
RHOA	22 10749-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
RHOB	4 14326-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
RHOF	12290-1-AP	Rabbit Poly	ELISA, IHC, WB
RHOT2	2 11237-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
RHOXF2	13088-1-AP	Rabbit Poly	ELISA, WB
ROBO1-Specific	2 20219-1-AP	Rabbit Poly	ELISA, IP, WB
ROBO3	11982-1-AP	Rabbit Poly	ELISA, IHC, WB
ROBO3-Specific	20220-1-AP	Rabbit Poly	ELISA, IHC, WB
ROBO4-Specific	20221-1-AP	Rabbit Poly	ELISA, WB

Antibody Name	Cat. No.	Type	Applications
ROCK1	7 21850-1-AP	Rabbit Poly	ELISA, IHC, WB
ROCK1-Specific	20247-1-AP	Rabbit Poly	ELISA, IHC, WB
ROCK2	 2 21645-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
ROCK2-Specific	4 20248-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
RORA	2 10616-1-AP	Rabbit Poly	ELISA, WB
RORB	17635-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
RORC	13205-1-AP	Rabbit Poly	ELISA, WB
RUNX1	25315-1-AP	Rabbit Poly	ELISA, IF, IP, WB
RUNX1	19555-1-AP	Rabbit Poly	ELISA, IP, WB
RUNX2	4 20700-1-AP	Rabbit Poly	ELISA, WB
SATB1	15400-1-AP	Rabbit Poly	ELISA, IP, WB
SATB2	21307-1-AP	Rabbit Poly	ELISA, WB
SEMA3C	19242-1-AP	Rabbit Poly	ELISA, WB
SEMA3D	13029-1-AP	Rabbit Poly	ELISA, WB
SFRP2	2 12189-1-AP	Rabbit Poly	ELISA, IHC, WB
SFRP4	15328-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
SH2D2A	18539-1-AP	Rabbit Poly	ELISA, FC, IHC, WB
SHH	3 20697-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, IP, WB
SHOX	25117-1-AP	Rabbit Poly	ELISA, WB
SIX1	4 10709-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
SIX2	 75 11562-1-AP	Rabbit Poly	ChIP, ELISA, IF, IHC, IP, Pull-Down, WB
SIX4	21305-1-AP	Rabbit Poly	ELISA, IF, WB
SLIT2-Specific	20217-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, WB
SMOX	3 15052-1-AP	Rabbit Poly	ELISA, IHC, WB
SNAI1	16 13099-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
SNAI2	4 12129-1-AP	Rabbit Poly	ELISA, IHC, WB
SOX6	14010-1-AP	Rabbit Poly	ELISA, WB
SOX8	20627-1-AP	Rabbit Poly	ELISA, IHC, WB
STK3/MST2	12097-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
STK4/MST1	22245-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB

More validation images available on our website.



Antibody Name	Cat. No.	Type	Applications
SUFU	10836-1-AP	Rabbit Poly	ELISA, IF, IHC
SUMO1	10329-1-AP	Rabbit Poly	ELISA, WB
SUMO2/3	10947-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
TAB1	14819-1-AP	Rabbit Poly	ELISA, IP, WB
TAB2	14410-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, IP, WB
Tankyrase	18030-1-AP	Rabbit Poly	ELISA, IF, IP, WB
TAZ	23306-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
TCF7L1	14519-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
TCF7L2	13838-1-AP	Rabbit Poly	ELISA, IP, WB
TEAD1	13283-1-AP	Rabbit Poly	ELISA, IP, WB
TEAD3	13120-1-AP	Rabbit Poly	ELISA, WB
TEM1	18160-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, WB
TGF-beta 1	18978-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
TGF-beta 2 -Specific	19999-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
TGF-beta 3	18942-1-AP	Rabbit Poly	ELISA, IHC, WB
TGFBR3-Specific	20000-1-AP	Rabbit Poly	ELISA, FC, WB
TGIF2	11522-1-AP	Rabbit Poly	ELISA, IF, WB
TGIF2LX	17405-1-AP	Rabbit Poly	ELISA, WB
TLE1	11284-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
TLE3	11372-1-AP	Rabbit Poly	ChIP, ELISA, IF, IHC, IP, WB
TLE3	22094-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
TLE3	66083-1-Ig	Mouse Mono	ELISA, IHC, IP, WB
TNFR1	21574-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, WB
TNFR1	60192-1-Ig	Mouse Mono	ELISA, FC, IHC, WB
TNFR2	19272-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, IP, WB
TRIM69	12951-1-AP	Rabbit Poly	ELISA, IHC, WB
TSHZ3	25018-1-AP	Rabbit Poly	ELISA, WB
TTF1	66034-1-Ig	Mouse Mono	ELISA, IHC, WB
UBC9	10070-1-AP	Rabbit Poly	ELISA, IHC, WB
UBC9	10224-1-AP	Rabbit Poly	ELISA, IHC, WB

Antibody Name	Cat. No.	Type	Applications
UBC9	51018-2-AP	Rabbit Poly	ELISA, IHC, IP, WB
UBC9	60201-1-Ig	Mouse Mono	ELISA, IHC, WB
UBC9-Specific	14837-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, WB
VEGF	19003-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
VEGFR-1/FLT-1	13687-1-AP	Rabbit Poly	ELISA, FC, IF, IP, WB
VEGFR3	20712-1-AP	Rabbit Poly	ELISA, WB
Vimentin	10366-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, WB
VSX2	25825-1-AP	Rabbit Poly	ELISA, IHC, WB
WEE2/WEE1B	55119-1-AP	Rabbit Poly	ELISA, WB
Willin/FRMD6	21039-1-AP	Rabbit Poly	ELISA, FC, IHC, WB
WNT2	11160-1-AP	Rabbit Poly	ELISA, IHC, WB
WNT3	17983-1-AP	Rabbit Poly	ELISA, FC, IP, WB
WNT3A	21414-1-AP	Rabbit Poly	ELISA, IHC
WNT5A-B	55184-1-AP	Rabbit Poly	ELISA, IHC, WB
WNT6	24201-1-AP	Rabbit Poly	ELISA, IHC, WB
WNT7A	10605-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, IP, WB
WT1	12609-1-AP	Rabbit Poly	ELISA, IP, WB
YAP1	13584-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, IP, WB
ZHX1	13903-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
ZHX2	20136-1-AP	Rabbit Poly	ELISA, IP, WB

CONTACT US

Proteintech Group *US Head Office*

PHONE	1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
FAX	1 (312) 455-8408
ADDRESS	Proteintech Group, Inc. 5400 Pearl Street, Suite 300, Rosemont, IL 60018, USA
EMAIL	proteintech@ptglab.com

Proteintech Europe *United Kingdom*

PHONE	+44 (161) 8393007
FAX	+44 (161) 2413103
ADDRESS	Proteintech Europe, Ltd. 4th Floor, 196 Deansgate, Manchester, M3 3WF
EMAIL	europe@ptglab.com

Proteintech Europe *Germany*

EMAIL	germany@ptglab.com Sales and technical support only.
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Proteintech *China Office*

PHONE	027-87531629 or 4006-900-926
FAX	027-87531627
ADDRESS	Wuhan Sanying Biotechnologies D3-3, No.666 Gaoxin Avenue, Wuhan East Lake Hi-tech Development Zone Wuhan, Hubei, P.R.C
EMAIL	service@ptglab.com

Support

Available 24 hours via Live Chat and 9-5 (CDT) via phone.

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