For Research Use Only

WNT4 Polyclonal antibody

Catalog Number:14371-1-AP 10 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
14371-1-AP

Size:
150ul , Concentration: 350 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG5741

GenBank Accession Number:
BC057781

GeneID (NCBI):
54361

UNIPROT ID:
P56705

Full Name:
wingless-type MMTV integration site family, member 4

Calculated MW:
39 kDa

Observed MW:
39-45 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
IHC 1:50-1:500
IF/ICC 1:50-1:500

Applications

Tested Applications:
IHC, IF/ICC, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse

Cited Species:
human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

IHC : human kidney tissue, human hepatocirrhosis tissue, mouse kidney tissue

IF/ICC : MCF-7 cells, HeLa cells

Background Information

WNT4 belongs to the Wnt family. WNT4 is critical for embryonic organogenesis, but later plays a unique role among Wnt proteins in the development and maintenance of müllerian and reproductive tissues (PMID: 33963381). The mesenchymal stem cells can improve cardiac function after cardiac injury by regulating endothelial cells via the Wnt4/β-catenin signaling pathway (PMID: 20551912). WNT4 may be modified by glycosylation, leading to an increase in molecular weight.

Notable Publications

Author	Pubmed ID	Journal	Application
Alison M Neff	31748790	Endocrinology	WB
Yu Li L	23784673	Neurochem Res	IHC
Bing Cao	35227255	BMC Complement Med Ther	IHC

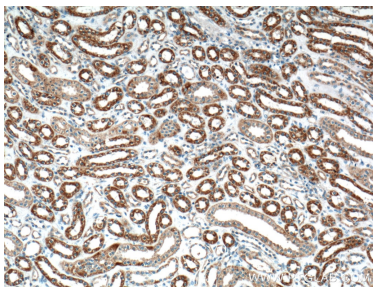
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

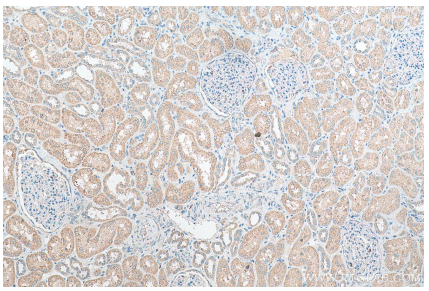
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

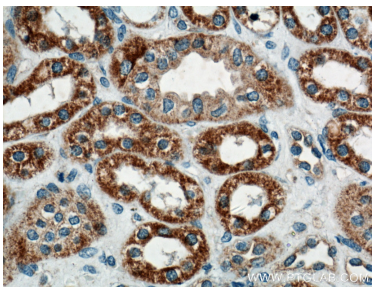
Selected Validation Data



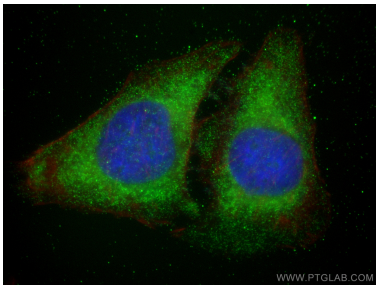
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 14371-1-AP (WNT4 antibody) at dilution of 1:200 (under 10x lens).



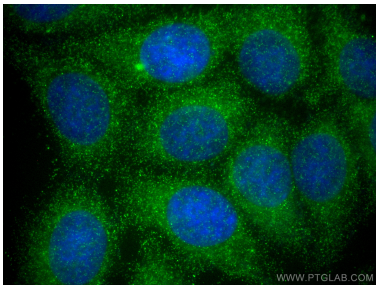
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 14371-1-AP (WNT4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 14371-1-AP (WNT4 antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using WNT4 antibody (14371-1-AP) at dilution of 1:200 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-Phalloidin (red).



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using WNT4 antibody (14371-1-AP) at dilution of 1:200 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).