For Research Use Only

ARL13B Polyclonal antibody

Catalog Number:17711-1-AP Featured Product 526 Publications

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Basic Information

Catalog Number:
17711-1-AP

Size:
150ul , Concentration: 900 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG12015

GenBank Accession Number:
BC094725

GeneID (NCBI):
200894

Full Name:
ADP-ribosylation factor-like 13B

Calculated MW:
48 kDa

Observed MW:
40-48 kDa, 66 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB
IHC 1:50-1:500
IF 1:50-1:500

Applications

Tested Applications:
IF, IHC, IP, WB, ELISA

Cited Applications:
FC, IF, IHC, IP, WB

Species Specificity:
human, mouse, rat, Canine

Cited Species:
canine, chicken, human, monkey, mouse, pig, rat, sheep, Xenopus, zebrafish

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:

WB : mouse liver tissue, NIH/3T3 cells, L02 cells, mouse kidney tissue, rat liver tissue, mouse brain tissue

IP : L02 cells,

IHC : mouse brain tissue, human testis tissue,human liver tissue,human kidney tissue

IF : MDCK cells, hTERT-RPE1 cells, hTERT-RPE1 cells, NIH3T3 cells, mouse embryonic fibroblasts

Background Information

ARL13B, also named as ARL2L1, is a small ciliary G protein of the Ras superfamily. Localized in the cilia, it is required for cilium biogenesis and sonic hedgehog signaling. Defects in ARL13B are the cause of Joubert syndrome (JS) which is an autosomal recessive disorder characterized by a distinctive cerebellar malformation (PMID: 19906870).This antibody detects two specific bands at 60 kDa and 48 kDa. Arl13b is predicted to be a 48 kDa protein, and the 60 kDa band is likely to represent a modified form of Arl13b. ARL13B can be used to mark the cilia (PMID:22072986).

Notable Publications

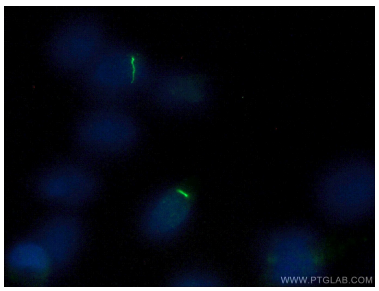
Author	Pubmed ID	Journal	Application
Yi Chung Lim	26430510	Cilia	IF
Silvia Pietrobono	34638386	Cancers (Basel)	IF
Mandy Lokaj	26455799	Structure	IF

Storage

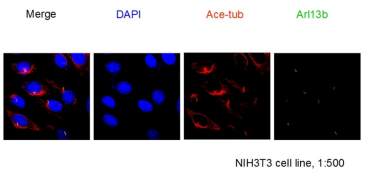
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

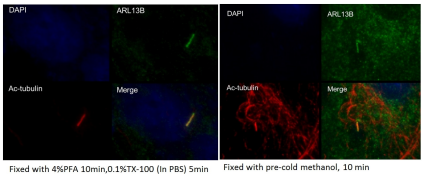
Selected Validation Data



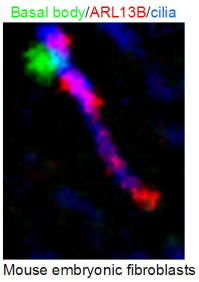
Immunofluorescent analysis of (4% PFA) fixed MDCK cells using 17711-1-AP (ARL13B antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



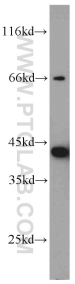
IF result of anti-ARL13B (17711-1-AP) in NIH3T3 cell by Dr. Sudipto.



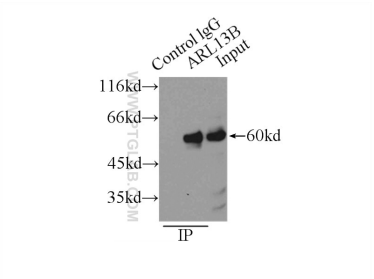
IF result of ARL13B antibody (17711-1-AP) in hTERT-RPE cell fixed with 4% PFA or Methanol.



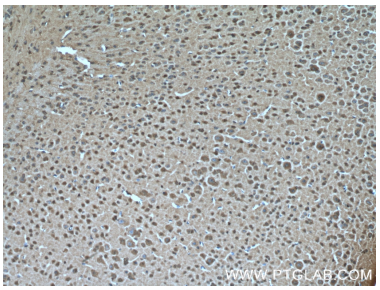
IF result from Dr. Corbit, Kevin. anti-ARL13B (17711-1-AP) mark the cilium of Mouse embryonic fibroblasts.



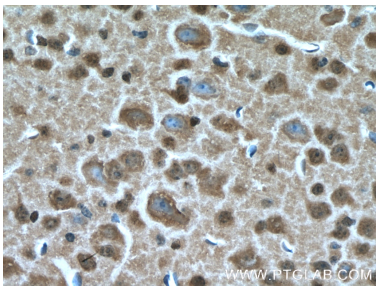
mouse liver tissue were subjected to SDS PAGE followed by western blot with 17711-1-AP (ARL13B antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP Result of anti-ARL13B (IP:17711-1-AP, 3ug; Detection:17711-1-AP 1:1000) with L02 cells lysate 2500ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 17711-1-AP (ARL13B 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 mouse brain tissue slide using 17711-1-AP (ARL13B Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).