

# ARL13B

## Polyclonal ANTIBODY

Catalog Number: 17711-1-AP

Featured Product

193 Publications

### Basic Information

**Catalog Number:**  
17711-1-AP

**Size:**  
41 µg/150 µl

**Source:**  
Rabbit

**Isotype:**  
IgG

**Purification Method:**  
Antigen affinity purification

**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

**Recommended Dilutions:**

WB 1:500-1:2000

IP 0.5-4.0 µg for IP and 1:500-1:2000 for WB

IHC 1:50-1:500

IF 1:50-1:200

### Applications

**Tested Applications:**

IF, IHC, IP, WB, ELISA

**Cited Applications:**

IF, IHC, WB

**Species Specificity:**  
human, mouse, rat, dog

**Cited Species:**  
chicken, dog, human, mouse, pig, rat, sheep,  
Xenopus, Zebrafish

**Positive Controls:**

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

**IP** : L02 cells;

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

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

### 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 (PMD: 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 (PMD:22072986).

### Notable Publications

Author	Pubmed ID	Journal	Application
Yi Chung Lim	26430510	Cilia	IF
Mandy Lokaj	26455799	Structure	IF
Ivan Duran	27666822	Sci Rep	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

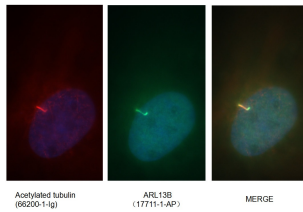
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

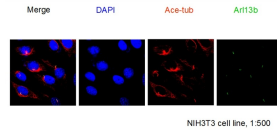
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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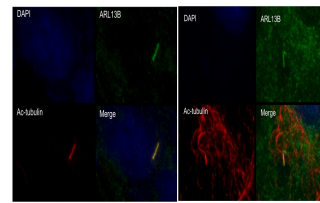
## Selected Validation Data



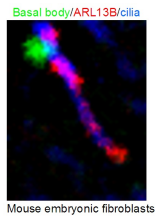
Immunofluorescent analysis of (4% PFA) fixed MDCK cells using 17711-1-AP(ARL13B antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



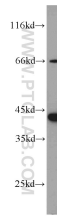
IF result of anti-ARL13B(17711-1-AP) in NIH3T3 cell by Dr. Sudipto.



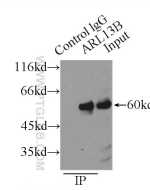
IF result of ARL13B antibody (17711-1-AP) in hTERT-RPE cell fixed with 4% PFA or Methanol.



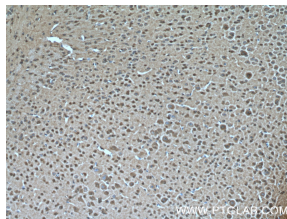
IF result from Dr. Corbit, Kevin. anti-ARL13B(17711-1-AP) mark the cilium of Mouse embryonic fibroblasts.



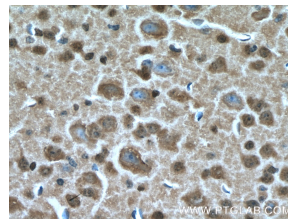
mouse liver tissue were subjected to SDS PAGE followed by western blot with 17711-1-AP(ARL13B antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours



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



Immunohistochemistry of paraffin-embedded mouse brain tissue slide using 17711-1-AP(ARL13B Antibody) at dilution of 1:200 (under 10x lens). heat mediated antigen retrieved with Tris-EDTA buffer(pH9).



Immunohistochemistry of paraffin-embedded mouse brain tissue slide using 17711-1-AP(ARL13B Antibody) at dilution of 1:200 (under 40x lens). heat mediated antigen retrieved with Tris-EDTA buffer(pH9).