

For Research Use Only

ARL13B Monoclonal antibody

Catalog Number: 66739-1-Ig **23 Publications**



Basic Information

Catalog Number: 66739-1-Ig	GenBank Accession Number: BC094725	Purification Method: Protein A purification
Size: 150ul , Concentration: 2200 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 200894	CloneNo.: 1H6C3
Source: Mouse	UNIPROT ID: Q3SXY8	Recommended Dilutions: WB 1:1000-1:6000 IF-Fro 1:50-1:500 IF/ICC 1:400-1:1600
Isotype: IgG2a	Full Name: ADP-ribosylation factor-like 13B	
Immunogen Catalog Number: AG12031	Calculated MW: 48 kDa	
	Observed MW: 60 kDa	

Applications

Tested Applications: WB, IF/ICC, IF-Fro, ELISA	Positive Controls: WB : HepG2 cells, HEK-293 cells, NCCIT cell
Cited Applications: WB, IHC, IF	IF-Fro : mouse heart tissue,
Species Specificity: human, mouse, pig, canine	IF/ICC : hTERT-RPE1 cells,
Cited Species: human, mouse, rat	

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). 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
Dario Cilleros-Rodriguez	36063381	Elife	WB
Caroline Shak	36268591	J Cell Sci	WB,IF
Matteus Krappitz	36270750	J Am Soc Nephrol	IF

Storage

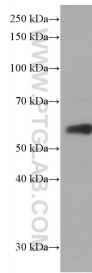
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

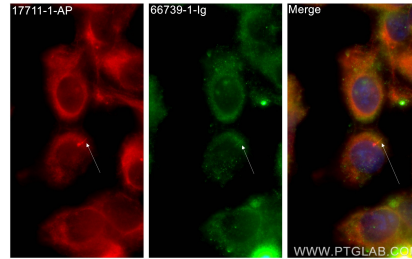
For technical support and original validation data for this product please contact:
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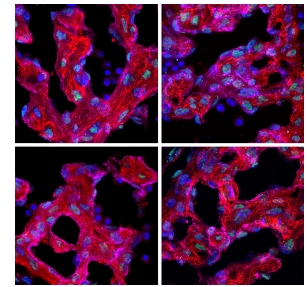
Selected Validation Data



HepG2 cells were subjected to SDS PAGE followed by western blot with 66739-1-Ig (ARL13B antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Methanol) fixed hTERT-RPE1 cells using ARL13B antibody (66739-1-Ig, Clone: 1H6C3) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), ARL13B antibody (17711-1-AP, red).



rozen tissue section of embryonic mouse heart (E12.5) was stained for cardiac troponin-T /cTnT (red, Cat. No 15513-1-AP), CD31/PECAM-1 (magenta), and ARL13B (green, Cat. No 66739-1-Ig) with DAPI as a counterstain for visualizing the nucleus (blue). cTnT stains cardiomyocytes and was visualized with an Alexa Fluor 555 secondary antibody. CD31 stains endocardial/endothelial cells and was visualized with an Alexa Fluor 647

