

For Research Use Only

NPHP4 Polyclonal antibody

Catalog Number: 13812-1-AP

11 Publications



Basic Information

Catalog Number: 13812-1-AP	GenBank Accession Number: BC040520	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 350 µg/ml by Nanodrop;	GeneID (NCBI): 261734	Recommended Dilutions: WB 1:500-1:1000 IHC 1:20-1:200 IF 1:10-1:100
Source: Rabbit	Full Name: nephronophthisis 4	
Isotype: IgG	Calculated MW: 1426 aa, 158 kDa	
Immunogen Catalog Number: AG4875	Observed MW: 150 kDa	

Applications

Tested Applications: IF, IHC, WB, ELISA	Positive Controls: WB : mouse brain tissue, Y79 cells IHC : human heart tissue, IF : hTERT-RPE1 cells, MDCK cells
Cited Applications: IF, WB	
Species Specificity: human, mouse, Canine	
Cited Species: human, mouse	

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

Background Information

NPHP4, also named as KIAA0673, is a cilia-associated protein which involved in the organization of apical junctions in kidney cells together with NPHP1 and RPGRIP1L/NPHP8. It is necessary for normal photoreceptor ribbon synapse maintenance and outer segment formation, and for sperm development.

Notable Publications

Author	Pubmed ID	Journal	Application
Stephanie O Agbu	29038301	J Cell Biol	IF
Anna Kazatskaya	29021280	Genetics	IF
Chuan Chen	34162535	Sci Adv	IF

Storage

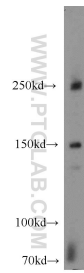
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

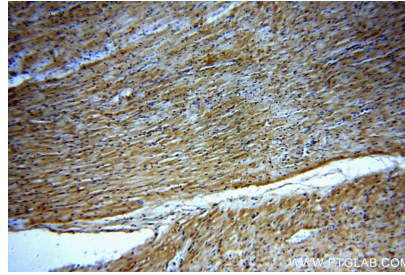
For technical support and original validation data for this product please contact:
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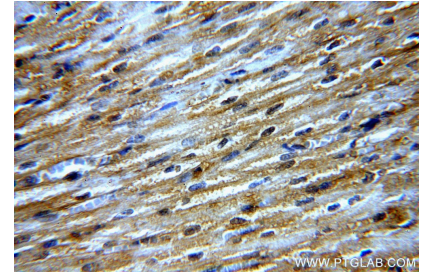
Selected Validation Data



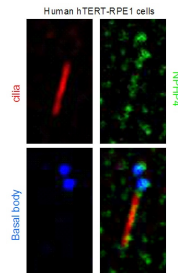
mouse brain tissue were subjected to SDS PAGE followed by western blot with 13812-1-AP (NPHP4 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human heart using 13812-1-AP (NPHP4 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human heart using 13812-1-AP (NPHP4 antibody) at dilution of 1:50 (under 40x lens).



IF result from Dr. Corbit, Kevin. anti-NPHP4 (13812-1-AP) marks the ciliary axoneme, basal bodies, and the transition zone of Human hTERT-RPE1 cells.