

For Research Use Only

MYO7A Polyclonal antibody

Catalog Number: 20720-1-AP

4 Publications



Basic Information

Catalog Number: 20720-1-AP	GenBank Accession Number: NM_000260	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 700 ug/ml by Nanodrop;	GeneID (NCBI): 4647	Recommended Dilutions: WB 1:500-1:1000
Source: Rabbit	UNIPROT ID: Q13402	IHC 1:500-1:2000
Isotype: IgG	Full Name: myosin VIIA	IF/ICC 1:50-1:500
	Calculated MW: 254 kDa	
	Observed MW: 240-250 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls: WB : L02 cells, A431 cells
Cited Applications: WB, IF	IHC : human liver tissue,
Species Specificity: human, mouse, rat	IF/ICC : HepG2 cells,
Cited Species: human, mouse, zebrafish	
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

MYO7A, also named a USH1B, is one of myosins protein which are actin-based motor molecules with ATPase activity. Unconventional myosins serve in intracellular movements. Their highly divergent tails are presumed to bind to membranous compartments, which would be moved relative to actin filaments. In retina, MYO7A might play a role in trafficking of ribbon-synaptic vesicle complexes and renewal of the outer photoreceptors disks. In inner ear, it might maintain the rigidity of stereocilia during the dynamic movements of the bundle. It is involved in hair-cell vesicle trafficking of aminoglycosides, which are known to induce ototoxicity. Defects in MYO7A are the cause of Usher syndrome type 1B (USH1B). Defects in MYO7A are the cause of deafness autosomal recessive type 2 (DFNB2). Defects in MYO7A are the cause of deafness autosomal dominant type 11 (DFNA11). The antibody is specific to MYO7A.

Notable Publications

Author	Pubmed ID	Journal	Application
Samaneh Matoo	34473561	Mol Biol Cell	WB,IF
Xiang Chen	34829928	Biomedicines	IF
Sevda Pouraghaei	33455314	ACS Biomater Sci Eng	IF

Storage

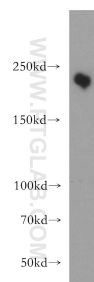
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

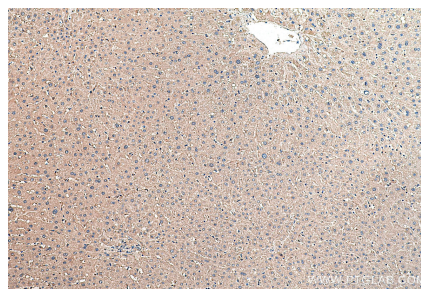
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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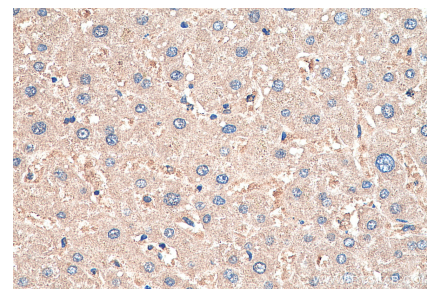
Selected Validation Data



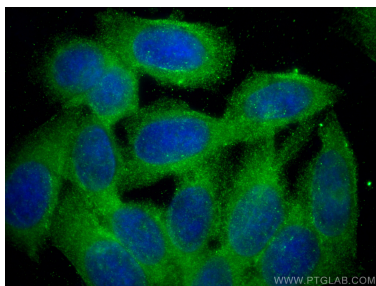
L02 cells were subjected to SDS PAGE followed by western blot with 20720-1-AP (MYO7A antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 20720-1-AP (MYO7A antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 20720-1-AP (MYO7A antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using MYO7A antibody (20720-1-AP) at dilution of 1:200 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).