

For Research Use Only

MYO7A Polyclonal antibody

Catalog Number: 20720-1-AP **2 Publications**



Basic Information

Catalog Number: 20720-1-AP	GenBank Accession Number: NM_000260	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 300 µg/ml by Nanodrop and 287 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 4647	Recommended Dilutions: WB 1:500-1:2400 IF 1:10-1:100
Source: Rabbit	Full Name: myosin VIIA	
Isotype: IgG	Calculated MW: 254 kDa	
	Observed MW: 160-255 kDa	

Applications

Tested Applications: IF, WB, ELISA	Positive Controls: WB : LO2 cells, A431 cells IF : HepG2 cells,
Cited Applications: IF, WB	
Species Specificity: human, mouse, rat	
Cited Species: human	

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
Sevda Pouraghaei	33455314	ACS Biomater Sci Eng	IF

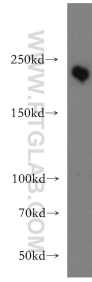
Storage

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

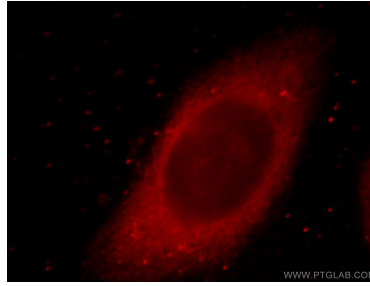
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Selected Validation Data



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.



Immunofluorescent analysis of HepG2 cells, using MYO7A antibody 20720-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).