

For Research Use Only

MYO7A Recombinant antibody

Catalog Number: 83807-1-RR



Basic Information

Catalog Number: 83807-1-RR	GenBank Accession Number: NM_000260	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 4647	CloneNo.: 240612C11
Source: Rabbit	UNIPROT ID: Q13402	Recommended Dilutions: WB 1:500-1:2000 IHC 1:200-1:800 IF/ICC 1:125-1:500
Isotype: IgG	Full Name: myosin VIIA	
	Calculated MW: 254 kDa	
	Observed MW: 254 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, FC (Intra), ELISA	Positive Controls: WB : A431 cells, Y79 cells, rat retina tissue IHC : mouse testis tissue, IF/ICC : Y79 cells,
Species Specificity: human, rat	
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.

Storage

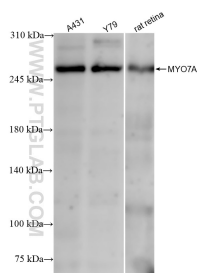
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

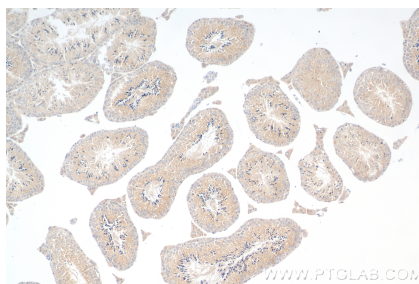
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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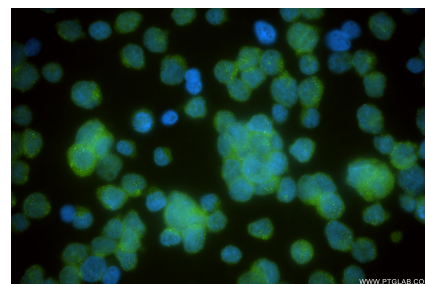
Selected Validation Data



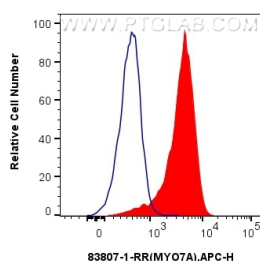
Various lysates were subjected to SDS PAGE followed by western blot with 83807-1-RR (MYO7A antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 83807-1-RR (MYO7A antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed Y79 cells using MYO7A antibody (83807-1-RR, Clone: 240612C11) at dilution of 1:250 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



1x10⁶ HepG2 cells were intracellularly stained with 0.25 ug MYO7A Recombinant antibody (83807-1-RR, Clone:240612C11) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).