

Anti-MYO7A / Myosin-VIIa Antibody (Internal)
Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17437**Specification**

Anti-MYO7A / Myosin-VIIa Antibody (Internal) - Product Information

Application	WB, IHC-P
Primary Accession	Q13402
Predicted	Human, Mouse, Rat, Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	254390

Anti-MYO7A / Myosin-VIIa Antibody (Internal) - Additional Information**Gene ID 4647**

Alias Symbol	MYO7A
Other Names	
MYO7A, DFNA11, DFNB2, Myosin VIIA, MYOVIIA, MYU7A, USH1B, Unconventional myosin-VIIa, NSRD2	

Target/Specificity

Recognizes endogenous levels of MYO7A protein.

Reconstitution & Storage

PBS, pH 7.3, 0.01% sodium azide, 30% glycerol. Store at -20°C. Aliquot to avoid freeze/thaw cycles.

Precautions

Anti-MYO7A / Myosin-VIIa Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-MYO7A / Myosin-VIIa Antibody (Internal) - Protein Information**Name MYO7A****Synonyms USH1B****Function**

Myosins are actin-based motor molecules with ATPase activity. Unconventional myosins serve in intracellular movements. Their highly divergent tails bind to membranous compartments, which are then moved relative to actin filaments. In the retina, plays an important role in the renewal of the outer photoreceptor disks. Plays an important role in the distribution and migration of retinal pigment epithelial (RPE) melanosomes and phagosomes, and in the regulation of opsin transport in retinal photoreceptors. In the inner ear, plays an important role in differentiation, morphogenesis and organization of cochlear hair cell bundles. Involved in hair-cell vesicle trafficking of aminoglycosides, which are known to induce ototoxicity (By similarity). Motor protein that is a part

of the functional network formed by USH1C, USH1G, CDH23 and MYO7A that mediates mechanotransduction in cochlear hair cells. Required for normal hearing.

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:P97479}. Cytoplasm, cell cortex {ECO:0000250|UniProtKB:P97479}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:P97479}. Synapse. Note=In the photoreceptor cells, mainly localized in the inner and base of outer segments as well as in the synaptic ending region (PubMed:8842737). In retinal pigment epithelial cells colocalizes with a subset of melanosomes, displays predominant localization to stress fiber-like structures and some localization to cytoplasmic puncta (PubMed:19643958, PubMed:27331610). Detected at the tip of cochlear hair cell stereocilia (PubMed:21709241). The complex formed by MYO7A, USH1C and USH1G colocalizes with F-actin (PubMed:21709241).

Tissue Location

Expressed in the pigment epithelium and the photoreceptor cells of the retina. Also found in kidney, liver, testis, cochlea, lymphocytes. Not expressed in brain

Anti-MYO7A / Myosin-VIIa Antibody (Internal) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-MYO7A / Myosin-VIIa Antibody (Internal) - Images