

MYO3A Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP57424

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q8NEV4
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	186208

Additional Information

Gene ID	53904
Other Names	Myosin-IIIa, 2.7.11.1, MYO3A
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	MYO3A
Function	Actin-dependent motor protein with a protein kinase activity, playing an essential role in hearing (PubMed: 12032315 , PubMed: 29880844 , PubMed: 34788109). Probably also plays a role in vision. Required for normal cochlear hair bundle development and hearing. Plays an important role in the early steps of cochlear hair bundle morphogenesis. Influences the number and lengths of stereocilia to be produced and limits the growth of microvilli within the forming auditory hair bundles thereby contributing to the architecture of the hair bundle, including its staircase pattern. Involved in the elongation of actin in stereocilia tips by transporting the actin regulatory factor ESPN to the plus ends of actin filaments (PubMed: 29880844 , PubMed: 34788109).
Cellular Location	Cytoplasm, cytoskeleton. Cytoplasm. Cell projection, filopodium tip. Cell projection, stereocilium. Note=Increased localization at the filodium tip seen in the presence of MORN4
Tissue Location	Strongest expression in retina, retinal pigment epithelial cells, cochlea and pancreas

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