Immunotag™ MYO3A Polyclonal Antibody

Antibody Specification

Catalog No.	ITN0897
Product Description	Immunotag™ MYO3A Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	MYO3A
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Reactive Species	Human,Mouse
Host Species	Rabbit
Immunogen	Synthesized peptide derived from human protein . at AA range: 180-260
Specificity	MYO3A Polyclonal Antibody detects endogenous levels of protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Gene Name	MYO3A
Accession No.	Q8NEV4 Q8K3H5

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Description	myosin IIIA(MYO3A) Homo sapiens The protein encoded by this gene belongs to the myosin superfamily. Myosins are actin-dependent motor proteins and are categorized into conventional myosins (class II) and unconventional myosins (classes I and III through XV) based on their variable C-terminal cargo-binding domains. Class III myosins, such as this one, have a kinase domain N-terminal to the conserved N-terminal motor domains and are expressed in photoreceptors. The protein encoded by this gene plays an important role in hearing in humans. Three different recessive, loss of function mutations in the encoded protein have been shown to cause nonsyndromic progressive hearing loss. Expression of this gene is highly restricted, with the strongest expression in retina and cochlea. [provided by RefSeq, Jul 2008],
Protein Expression	Brain,Epithelium,PCR rescued clones,
Subcellular Localization	cytoplasm,myosin complex,filopodium,filamentous actin,
Protein Function	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,disease:Defects in MYO3A are the cause of non-syndromic sensorineural deafness autosomal recessive type 30 (DFNB30) [MIM:607101]. DFNB30 is a form of sensorineural hearing loss. Sensorineural deafness results from damage to the neural receptors of the inner ear, the nerve pathways to the brain, or the area of the brain that receives sound information.,function:Probable actin-based motor with a protein kinase activity. Probably plays a role in vision and hearing.,similarity:Contains 1 myosin head-like domain.,similarity:Contains 1 protein kinase domain.,similarity:Contains 3 IQ domains.,similarity:In the N-terminal section; belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family.,tissue specificity:Strongest expression in retina, retinal pigment epithelial cells, cochlea and pancreas.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.