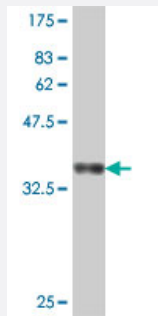


MYO1A polyclonal antibody (A01)

Catalog # H00004640-A01

Size 50 uL

Applications



Western Blot detection against Immunogen (37.11 kDa) .

Specification

Product Description	Mouse polyclonal antibody raised against a partial recombinant MYO1A.
Immunogen	MYO1A (NP_005370, 944 a.a. ~ 1043 a.a) partial recombinant protein with GST tag.
Sequence	SVTSLKDGLFSLHLSEMSSVGSKGDFLLVSEHVIELLTKMYRAVL DATQRQLTVTVTEKFSVRFKE NSVAVKVVQGPAGGDN SKLRYKKKGSHCLEVTVQ
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (80); Rat (78)
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.11 kDa) .
Storage Buffer	50 % glycerol
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

Gene Info — MYO1A

Entrez GeneID [4640](#)

GeneBank Accession# [NM_005379](#)

Protein Accession# [NP_005370](#)

Gene Name MYO1A

Gene Alias BBMI, DFNA48, MIHC, MYHL

Gene Description myosin IA

Omim ID [601478 607841](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene belongs to the myosin superfamily. Myosins are molecular motors that, upon interaction with actin filaments, utilize energy from ATP hydrolysis to generate mechanical force. Each myosin has a conserved N-terminal motor domain that contains both ATP-binding and actin-binding sequences. Following the motor domain is a light-chain-binding 'neck' region containing 1-6 copies of a repeat element, the IQ motif, that serves as a binding site for calmodulin or other members of the EF-hand superfamily of calcium-binding proteins. At the C-terminus, each myosin class has a distinct tail domain that serves in dimerization, membrane binding, protein binding, and/or enzymatic activities and targets each myosin to its particular subcellular location. The kidney epithelial cell line, LLC-PK1-CL4 (CL4), forms a well ordered brush border (BB) on its apical surface. Experiments indicate that the brush border population of the encoded protein turns over rapidly, while its head and tail domains interact transiently with the core actin and plasma membrane, respectively. A rapidly exchanging pool of the protein encoded by this gene envelops an actin core bundle that, by comparison, is static in structure. [provided by RefSeq]

Other Designations brush border myosin-I|deafness, autosomal dominant 48|myosin I heavy chain|myosin, heavy polypeptide-like (100kD)

Disease

- [Tobacco Use Disorder](#)