

Datasheet

MYO1A polyclonal antibody (A01)

Catalog Number: H00004640-A01

Regulation Status: For research use only (RUO)

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:

SVTSLKDGLFSLHLEMSVSGSKGDFLLVSEHVIELLT
KMYRAVLDTQRQLTVTEKFSVRFKENSVAVKVVQ
GPAGGDNLSKLRKKKGSCHLETVQ

Host: Mouse

Reactivity: Human

Applications: ELISA, WB-Re

(See our web site product page for detailed applications information)

Protocols: See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Storage Buffer: 50 % glycerol

Storage Instruction: Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 4640

Gene Symbol: MYO1A

Gene Alias: BBMI, DFNA48, MIHC, MYHL

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]