

Recombinant Human MYO1A Protein, GST-tagged

Cat. No. MYO1A-5830H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MYO1A partial ORF (NP_005370, 944 a.a. - 1043 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	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
Molecular Mass	36.74 kDa

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AA Sequence	SVTSLKDGLFSLHLSEMSSVGSKGDFLLVSEHVIELLTKMYRAVL DATQRQLTVTVTE KFSVRFKENSVAVKVVQGPAGGDN SKLRYKKKGSHCLEVTVQ
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	MYO1A myosin IA [Homo sapiens]
Official Symbol	MYO1A
Synonyms	MYO1A; myosin IA; DFNA48, MYHL; unconventional myosin-Ia; myosin I heavy chain; brush border myosin I; myosin, heavy polypeptide-like (100kD); BBMI; MIHC; MYHL; DFNA48;
Gene ID	4640
mRNA Refseq	NM_001256041
Protein Refseq	NP_001242970
MIM	601478

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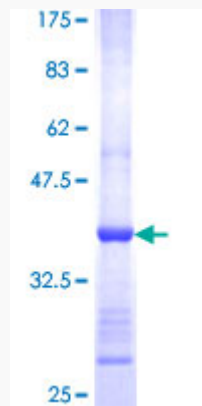
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UniProt ID

Q9UBC5

Quality Control

Testing:



12.5% SDS-PAGE Stained with Coomassie Blue.

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