Recombinant Human MYH9, GST-tagged

Cat. No. MYH9-31H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MYH9(1747 a.a. - 1852 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
Description	This gene encodes a conventional non-muscle myosin; this protein should not be confused with the unconventional myosin-9a or 9b (MYO9A or MYO9B). The encoded protein is a myosin IIA heavy chain that contains an IQ domain and a myosin head-like domain which is involved in several important functions, including cytokinesis, cell motility and maintenance of cell shape. Defects in this gene have been associated with non-syndromic sensorineural deafness autosomal dominant type 17, Epstein syndrome, Alport syndrome with macrothrombocytopenia, Sebastian syndrome, Fechtner syndrome and macrothrombocytopenia with progressive sensorineural deafness.
Molecular Mass	37.4 kDa
AA Sequence	LINDRLKKANLQIDQINTDLNLERSHAQKNENARQQLERQNKELKVKLQEMEGTVKS KYKASITALEAKIAQLEE QLDNETKERQAACKQVRRTEKKLKDVLLQVD
Applications	ELISA; WB-Re; AP; Array
Notes	Best use within three months from the date of receipt of this protein.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Store at -80°C. 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	MYH9 myosin, heavy chain 9, non-muscle [Homo sapiens (human)]
Official Symbol	MYH9
Synonyms	MYH9; myosin, heavy chain 9, non-muscle; DFNA17, myosin, heavy polypeptide 9, non muscle; myosin-9; EPSTS; FTNS; MHA; NMHC II A; NMMHCA; nonmuscle myosin heavy chain II A
Gene ID	4627
mRNA Refseq	NM_002473
Protein Refseq	NP_002464
MIM	160775
UniProt ID	P35579
Chromosome Location	22q13.1
Pathway	Axon guidance; Developmental Biology; EPHA-mediated growth cone collapse; Regulation of actin cytoskeleton
Function	ADP binding; contributes_to actin filament binding; contributes_to actin-dependent ATPase activity

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