

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	LINDRLKKANLQIDQINTDLNLERSHAQKNENARQQQLERQNKELKVKLQEMEGTVKS KYKASITALEAKIAQLEE QLDNETKERQAACKQVRRTEKCLKDVLLQVD
Applications	ELISA; WB-Re; AP; Array
Notes	Best use within three months from the date of receipt of this protein.

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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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