

## Recombinant Human MYH9, GST-tagged

**Cat. No.** MYH9-29H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human MYH9(131 a.a. - 220 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>Description</b>	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.
<b>Molecular Mass</b>	35.64 kDa
<b>AA Sequence</b>	RLKQLKRQLEEAEEEEAQRANASRRKLRQRELEDATETADAMNREVSSLKNKLRRGDL PFVVPRRMARKGAGDGSDE EVDGKADGAEAKPAE
<b>Applications</b>	ELISA; WB-Re; AP; Array
<b>Notes</b>	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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