10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MYH9 Antibody (N-term Y158) Blocking Peptide

Synthetic peptide
Catalog # BP16804a

Specification

MYH9 Antibody (N-term Y158) Blocking Peptide - Product Information

Primary Accession P35579

MYH9 Antibody (N-term Y158) Blocking Peptide - Additional Information

Gene ID 4627

Other Names
Myosin-9, Cellular myosin heavy chain, type A, Myosin heavy chain 9, Myosin heavy chain, non-muscle IIa, Non-muscle myosin heavy chain A, NMMHC-A, Non-muscle myosin heavy chain IIa, NMMHC II-a, NMMHC-IIA, MYH9

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MYH9 Antibody (N-term Y158) Blocking Peptide - Protein Information

Name MYH9

Function
Cellular myosin that appears to play a role in cytokinesis, cell shape, and specialized functions such as secretion and capping. Required for cortical actin clearance prior to oocyte exocytosis (By similarity). Promotes cell motility in conjunction with S100A4 (PubMed:16707441). During cell spreading, plays an important role in cytoskeleton reorganization, focal contact formation (in the margins but not the central part of spreading cells), and lamellipodial retraction; this function is mechanically antagonized by MYH10 (PubMed:20052411).

Cellular Location
Cytoplasm, cytoskeleton. Cytoplasm, cell cortex {ECO:0000250|UniProtKB:Q8VDD5}. Cytoplasmic vesicle, secretory vesicle, Cortical granule {ECO:0000250|UniProtKB:Q8VDD5}. Note=Colocalizes with actin filaments at lamellipodia margins and at the leading edge of migrating cells (PubMed:20052411). In retinal pigment epithelial cells, predominantly localized to stress fiber-like structures with some localization to cytoplasmic puncta (PubMed:27331610)

Tissue Location
In the kidney, expressed in the glomeruli. Also expressed in leukocytes.

MYH9 Antibody (N-term Y158) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

MYH9 Antibody (N-term Y158) Blocking Peptide - Images

MYH9 Antibody (N-term Y158) Blocking Peptide - Background

This gene encodes a myosin IIA heavy chain that containsan IQ domain and a myosin head-like domain. The protein is involvedin several important functions, including cytokinesis, cellmotility and maintenance of cell shape. Defects in MYH9 are thecause of non-syndromic sensorineural deafness autosomal dominanttype 17, Epstein syndrome, Alport syndrome withmacrothrombocytopenia, Sebastian syndrome, Fechtner syndrome andmacrothrombocytopenia with progressive sensorineural deafness.

MYH9 Antibody (N-term Y158) Blocking Peptide - References

Arii, J., et al. Nature 467(7317):859-862(2010)Genovese, G., et al. Kidney Int. 78(7):698-704(2010)Tzur, S., et al. Hum. Genet. 128(3):345-350(2010)Bostrom, M.A., et al. Hum. Genet. 128(2):195-204(2010)Oleksyk, T.K., et al. PLoS ONE 5 (7), E11474 (2010) :