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MYH9 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18112b

Product Information

Application	WB, E
Primary Accession	P35579
Other Accession	NP_002464.1
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB38850
Calculated MW	226532
Antigen Region	1840-1867

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
Target/Specificity	This MYH9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1840-1867 amino acids from the C-terminal region of human MYH9.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MYH9 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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}. Cell membrane 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.

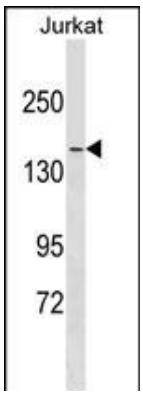
Background

This gene encodes a myosin IIA heavy chain that contains an IQ domain and a myosin head-like domain. The protein is involved in several important functions, including cytokinesis, cell motility and maintenance of cell shape. Defects in MYH9 are the cause of non-syndromic sensorineural deafness autosomal dominant type 17, Epstein syndrome, Alport syndrome with macrothrombocytopenia, Sebastian syndrome, Fechtner syndrome and macrothrombocytopenia with progressive sensorineural deafness.

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) :

Images



MYH9 Antibody (C-term) (Cat. #AP18112b) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the MYH9 antibody detected the MYH9 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.