

Product Name: KD-Validated MYH9 Mouse Monoclonal Antibody**Catalog #: KVA00421**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,IHC-P
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2b
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:400-1:2,000; FC 1:100-1:1,000; IHC-P 1:250-1:500
Molecular Weight	Calculated MW: 226.5kDa

Antigen Information

Gene Name	MYH9
Alternative Names	MYH9; Myosin Heavy Chain 9; NMHC-II-A; NMMHCA; EPSTS; FTNS; MHA; Cellular Myosin Heavy Chain, Type A; Nonmuscle Myosin Heavy Chain II-A; Non-Muscle Myosin Heavy Chain IIa; Non-Muscle Myosin Heavy Chain A; MMHC-IIA; Myosin-9; DFNA17; Myosin, Heavy Polypeptide 9, Non-Muscle; Non-Muscle Myosin Heavy Polypeptide 9; Myosin Heavy Chain, Non-Muscle IIa; Myosin, Heavy Chain 9, Non-Muscle; Non-Muscle Myosin Heavy Chain 9; Nonmuscle Myosin IIA2; NMMHC II-A; NMMHC-A; BDPLT6; MATINS
Gene ID	4627.0
SwissProt ID	P35579
Immunogen	Recombinant protein of human MYH9

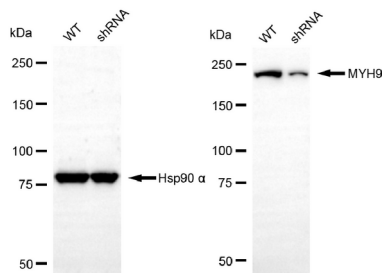
Background

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. [provided by RefSeq, Dec 2011]

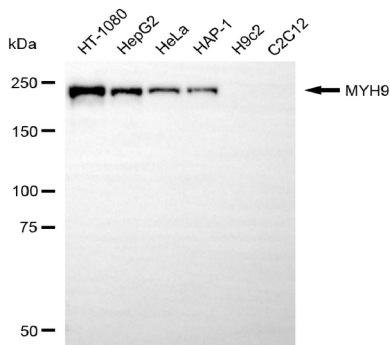
Research Area

Signal Transduction

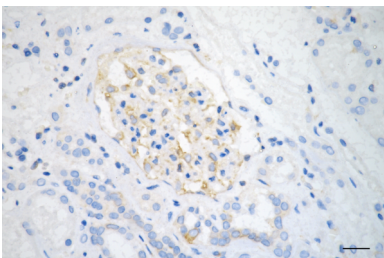
Image Data



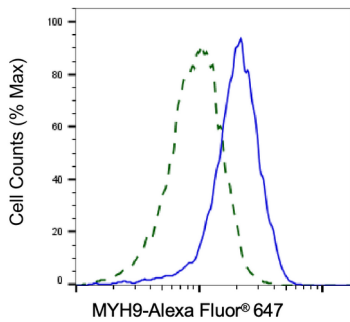
Western blotting analysis using MYH9 antibody (KVA00421). MYH9 expression in wild-type (WT) and MYH9 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with MYH9 antibody (KVA00421, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



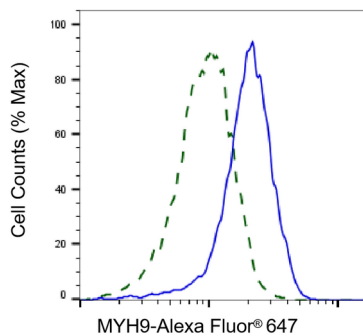
Western blotting analysis using MYH9 antibody (KVA00421). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with MYH9 antibody (KVA00421, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human renal carcinoma using MYH9 antibody (KVA00421, 1:500). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Validation of MYH9 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with MYH9 antibody (KVA00421, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of MYH9 expression in HepG2 cells using MYH9 antibody (KVA00421, 1:1,000) . Green, isotype control; red, MYH9.