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KD-Validated Anti-MYH9 Mouse Monoclonal Antibody

Mouse monoclonal antibody
Catalog # AGI2176

Specification

KD-Validated Anti-MYH9 Mouse Monoclonal Antibody - Product Information

Application	**WB, FC**
Primary Accession	P35579
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**Mouse IgG2a**
Calculated MW	**Predicted, 227 kDa, observed, 227 kDa KDa**
Gene Name	**MYH9**
Aliases	**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**
Immunogen	**Recombinant protein of human MYH9**

KD-Validated Anti-MYH9 Mouse Monoclonal Antibody - 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

KD-Validated Anti-MYH9 Mouse Monoclonal Antibody - 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).

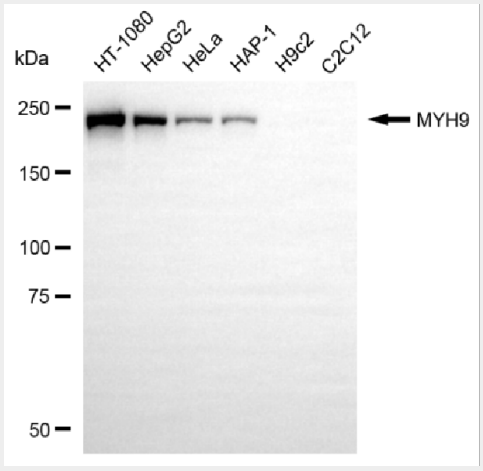
Tissue Location
In the kidney, expressed in the glomeruli. Also expressed in leukocytes.

KD-Validated Anti-MYH9 Mouse Monoclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-MYH9 Mouse Monoclonal Antibody - Images



Western blotting analysis using anti-MYH9 antibody (Cat#AGI2176). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-MYH9 antibody (Cat#AGI2176, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.

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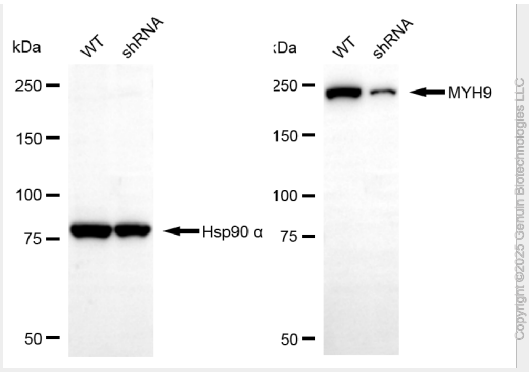
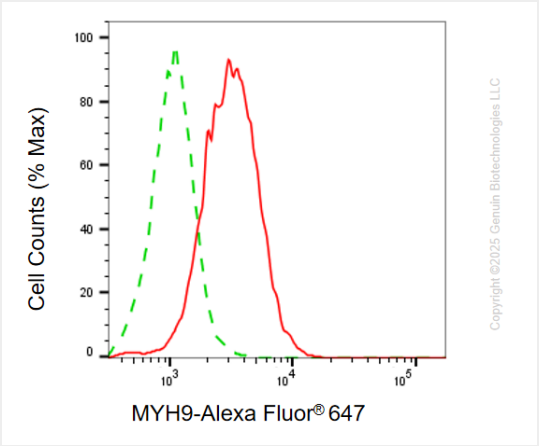


Western blotting analysis using anti-MYH9 antibody (Cat#AGI2176). MYH9 expression in wild-type (WT) and MYH9 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-MYH9 antibody (Cat#AGI2176, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Flow cytometric analysis of MYH9 expression in HepG2 cells using anti-MYH9 antibody (Cat#AGI2176, 1:1,000). Green, isotype control; red, MYH9.