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MYH9 Antibody (clone 2B3)

Mouse Monoclonal Antibody

Catalog # ALS14272

Specification

MYH9 Antibody (clone 2B3) - Product Information

Application	**WB, IF, IHC**
Primary Accession	P35579
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**227kDa KDa**

MYH9 Antibody (clone 2B3) - 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
Human MYH9

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions
MYH9 Antibody (clone 2B3) is for research use only and not for use in diagnostic or therapeutic procedures.

MYH9 Antibody (clone 2B3) - 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)

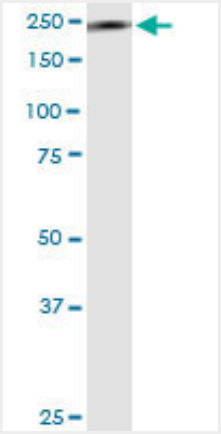
Tissue Location
In the kidney, expressed in the glomeruli. Also expressed in leukocytes.

MYH9 Antibody (clone 2B3) - Protocols

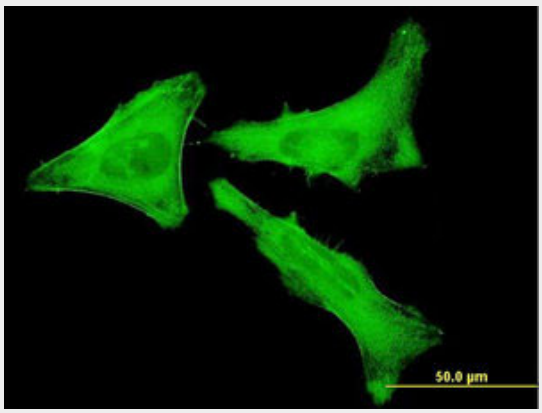
Provided below are standard protocols that you may find useful for product applications.

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

MYH9 Antibody (clone 2B3) - Images



MYH9 monoclonal antibody, clone 2B3. Western blot of MYH9 expression in human kidney.



Immunofluorescence of monoclonal antibody to MYH9 on HeLa cell. [antibody concentration 10 ug/ml].

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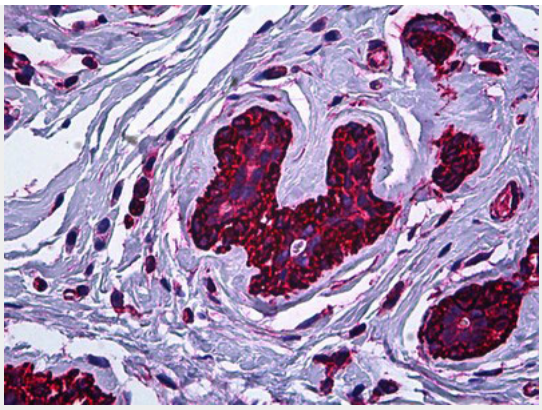
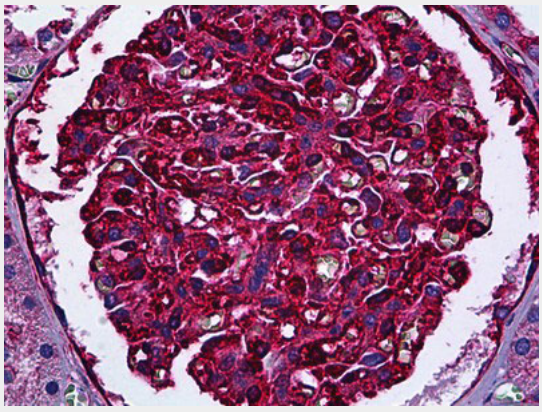


Anti-MYH9 antibody IHC of human breast.



Anti-MYH9 antibody IHC of human kidney, glomeruli.

MYH9 Antibody (clone 2B3) - Background

Cellular myosin that appears to play a role in cytokinesis, cell shape, and specialized functions such as secretion and capping. During cell spreading, plays an important role in cytoskeleton reorganization, focal contacts formation (in the margins but not the central part of spreading cells), and lamellipodial retraction; this function is mechanically antagonized by MYH10.

MYH9 Antibody (clone 2B3) - References

Collins J.E.,et al.Genome Biol. 5:R84.1-R84.11(2004).
Kato S.,et al.DNA Res. 12:53-62(2005).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Yamakawa H.,et al.Submitted (JAN-2007) to the EMBL/GenBank/DDBJ databases.
Dunham I.,et al.Nature 402:489-495(1999).