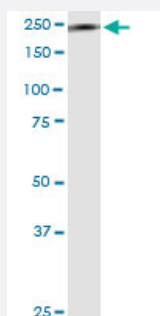


MYH9 monoclonal antibody (M03), clone 2B3

Catalog # H00004627-M03

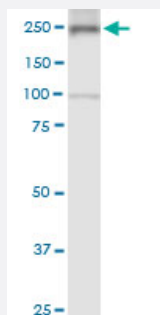
Size 100 ug

Applications



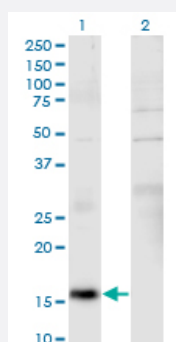
Western Blot (Tissue lysate)

MYH9 monoclonal antibody (M03), clone 2B3. Western Blot analysis of MYH9 expression in human kidney.



Western Blot (Cell lysate)

MYH9 monoclonal antibody (M03), clone 2B3. Western Blot analysis of MYH9 expression in HeLa.

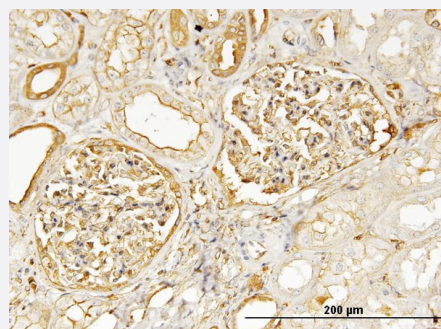


Western Blot (Transfected lysate)

Western Blot analysis of MYH9 expression in transfected 293T cell line by MYH9 monoclonal antibody (M03), clone 2B3.

Lane 1: MYH9 transfected lysate (Predicted MW: 10.01 KDa).

Lane 2: Non-transfected lysate.

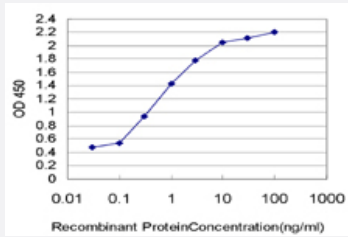


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to MYH9 on formalin-fixed paraffin-embedded human kidney. [antibody concentration 0.5 ug/ml]

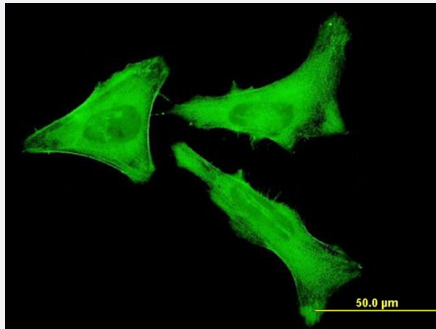
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged MYH9 is approximately 0.03ng/ml as a capture antibody.

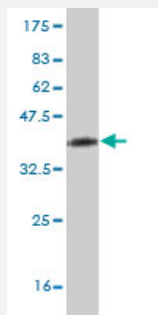


Immunofluorescence

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



Western Blot detection against Immunogen (35.64 KDa) .



Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant MYH9.
Immunogen	MYH9 (NP_002464.1, 1871 a.a. ~ 1960 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	RLKQLKRQLEEAEEEEAQRANASRRKLQRELEDATETADAMNREVSSLKNKLRRGDLFPVPPRR MARKGAGDGSDEEVDGKADGAEAKPAE
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (94)
Isotype	IgG2b Kappa

Quality Control Testing

Antibody Reactive Against Recombinant Protein.
Western Blot detection against Immunogen (35.64 KDa) .

Storage Buffer

In 1x PBS, pH 7.4

Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Tissue lysate)

MYH9 monoclonal antibody (M03), clone 2B3. Western Blot analysis of MYH9 expression in human kidney.

[Protocol Download](#)

- Western Blot (Cell lysate)

MYH9 monoclonal antibody (M03), clone 2B3. Western Blot analysis of MYH9 expression in HeLa.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of MYH9 expression in transfected 293T cell line by MYH9 monoclonal antibody (M03), clone 2B3.

Lane 1: MYH9 transfected lysate (Predicted MW: 10.01 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to MYH9 on formalin-fixed paraffin-embedded human kidney. [antibody concentration 0.5 ug/ml]

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged MYH9 is approximately 0.03ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

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

Gene Info — MYH9

Entrez GeneID [4627](#)

GeneBank Accession# [NM_002473.5](#)

Protein Accession# [NP_002464.1](#)

Gene Name MYH9

Gene Alias DFNA17, EPSTS, FTNS, MGC104539, MHA, NMHC-IIA, NMMHCA

Gene Description myosin, heavy chain 9, non-muscle

Omim ID [153640](#) [153650](#) [155100](#) [160775](#) [600208](#) [603622](#) [605249](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. [provided by RefSeq]

Other Designations MYH9 variant protein|OTTHUMP00000028706|cellular myosin heavy chain, type A|myosin, heavy polypeptide 9, non-muscle|non-muscle myosin heavy chain|non-muscle myosin heavy polypeptide 9|nonmuscle myosin heavy chain II-A

Publication Reference

- [A myosin chaperone, UNC-45A, is a novel regulator of intestinal epithelial barrier integrity and repair.](#)

Susana Lechuga, Alexander X Cartagena-Rivera, Afshin Khan, Bert I Crawford, Vani Narayanan, Daniel E Conway, Jaakko Lehtimäki, Pekka Lappalainen, Florian Rieder, Michelle S Longworth, Andrei I Ivanov.

FASEB Journal 2022 Mar; 36(5):e22290.

Application: IF, WB-Tr, Human, HT-29cf8, SK-CO15 cells

Pathway

- [Regulation of actin cytoskeleton](#)
- [Tight junction](#)

Disease

- [Albuminuria](#)
- [Attention](#)
- [Bernard-Soulier Syndrome](#)
- [Blood Platelet Disorders](#)
- [Cardiovascular Diseases](#)
- [Cerebral Hemorrhage](#)
- [Chronic Disease](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Deafness](#)
- [Diabetes Mellitus](#)
- [Endocrine System Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Glomerulonephritis](#)
- [Glomerulosclerosis](#)
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- [Thalassemia](#)
- [Thrombocytopenia](#)
- [Urologic Diseases](#)
- [von Willebrand Disease](#)