

Rabbit MYH9 Polyclonal Antibody | anti-MYH9 antibody

Phospho-MYH9 (Ser1943) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329453	Rabbit	Human, Mouse, Rat Predicted Reactivity: Rabbit (83%), Dog (92%)	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

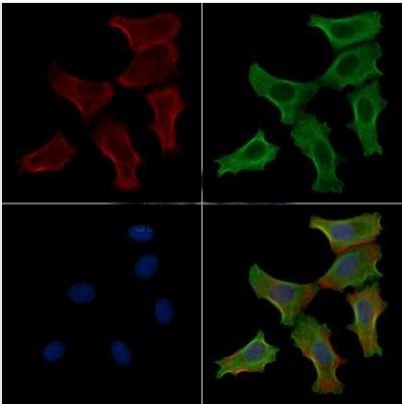
MYH9; Polyclonal Antibody; Phospho-MYH9 (Ser1943) Antibody; BDPLT 6; BDPLT6; Cellular myosin heavy chain; Cellular myosin heavy chain type A; DFNA 17; DFNA17; EPSTS; FTNS; MGC104539; MHA; MYH 2A; MYH 9; MYH2A; MYH9_HUMAN; MYHas8; MyHC 2A; MyHC IIa; MyHC2A; MyHCIIa; MYHSA 2; MYHSA2; Myosin 9; Myosin heavy chain 9; Myosin heavy chain 9 non muscle; Myosin heavy chain; Myosin heavy chain non muscle IIa; Myosin heavy chain nonmuscle IIa; Myosin heavy polypeptide 2; Myosin heavy polypeptide 9 non muscle; Myosin-9; Myosin9; NMHC II A; NMMHC A; NMMHC II a; NMMHC II-a; NMMHC IIa; NMMHC-A; NMMHC-IIa; NMMHCA; Non muscle myosin heavy chain A; Non muscle myosin heavy chain; Non muscle myosin heavy chain II A; Non muscle myosin heavy polypeptide 9; non-muscle IIa; Non-muscle myosin heavy chain A; Non-muscle myosin heavy chain IIa; Nonmuscle myosin heavy chain A; Nonmuscle myosin heavy chain II A; type A; anti-MYH9 antibody

PRODUCT SPECIFICATIONS

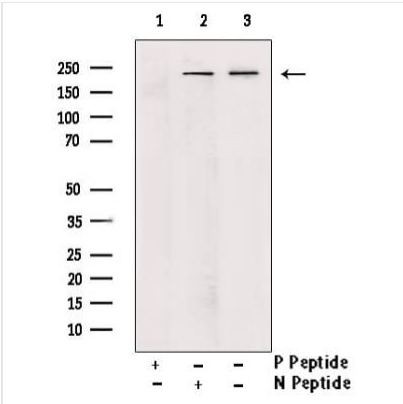
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Rabbit (83%), Dog (92%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-MYH9 (Ser1943) Antibody detects endogenous levels of MYH9 only when phosphorylated at Ser1943. Tissue Specificity: In the kidney, expressed in the glomeruli. Also expressed in leukocytes.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-MYH9 antibody	ELISA (Peptide ELISA), ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human MYH9 around the phosphorylation site of Ser1943.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	ISGylated.Ubiquitination.
Subunit Structure	Myosin is a hexameric protein that consists of 2 heavy chain subunits (MHC), 2 alkali light chain subunits (MLC) and 2 regulatory light chain subunits (MLC-2). Interacts with RASIP1 (By similarity). Interacts with DDR1 (By similarity). Interacts with SLC6A4 (By similarity). Interacts with PDLIM2 (By similarity). Interacts with SVIL. Interacts with HTRA3. Interacts with Myo7a (By similarity). Interacts with C9orf135. Interacts with LIMCH1; independently of the integration of MYH9 into the myosin complex. Interacts with RAB3A.
Similarity	The rodlike tail sequence is highly repetitive, showing cycles of a 28-residue repeat pattern composed of 4 heptapeptides, characteristic for alpha-helical coiled coils.Belongs to the TRAFAC class myosin-kinesin ATPase superfamily. Myosin family.

Subcellular Location	Cytoplasm>Cytoskeleton. Cytoplasm>Cell cortex. 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).
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)
 Staining HeLa cells(4h of LPS treatment) by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25 degree C. Samples were then incubated with primary Ab(AF4425 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37 degree C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody.The nuclear counter stain is DAPI(blue).



WB (Western Blot)
 Western blot analysis of extracts from HeLa, using Phospho-Myosin IIa (Ser1943) Antibody. Lane1 was treated with phospho-blocking peptide, Lane2 was treated with non-phospho-blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-MYH9 antibody	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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	12667788
NCBI GeneID	4627
NCBI Accession #	NP_002464.1
NCBI GenBank Nucleotide #	NM_002473.5
UniProt Accession #	P35579; O60805; Q60FE2; Q86T83; A8K6E4
Molecular Weight	226,532 Da
NCBI Official Full Name	myosin-9
NCBI Official Synonym Full Names	myosin, heavy chain 9, non-muscle
NCBI Official Symbol	MYH9
NCBI Official Synonym Symbols	MHA; FTNS; EPSTS; BDPLT6; DFNA17; NMMHCA; NMHC-II-A; NMMHC-IIA
NCBI Protein Information	myosin-9; myosin heavy chain 9; non-muscle myosin heavy chain A; non-muscle myosin heavy chain IIa; nonmuscle myosin heavy chain II-A; myosin heavy chain, non-muscle IIa; cellular myosin heavy chain, type A; non-muscle myosin heavy polypeptide 9
UniProt Protein Name	Myosin-9

UniProt Gene Name	MYH9
UniProt Synonym Gene Names	NMMHC-A; NMMHC II-a; NMMHC-IIA
UniProt Entry Name	MYH9_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/myh9-antibody-peptide-elisa-immunocytochemistry-immunofluorescence-western-blot-elisa/329453>