

Rabbit MLC2 / MYL9 Polyclonal Antibody | anti-MLC2 antibody

Rabbit Polyclonal to Human MLC2 / MYL9

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA50743	Rabbit	Human, Mouse, Rat	ELISA, Immunoprecipitation, Western Blot, Immunohistochemistry

PRODUCT SYNONYMS

MLC2 / MYL9; Polyclonal Antibody; Rabbit Polyclonal to Human MLC2 / MYL9; Anti-MLC2 / MYL9 Antibody (aa12-27) IHC-plus; MYL9; 20 kDa myosin light chain; LC20; MLC-2C; MLC2; Myosin RLC; MRLC1; MYRL2; Human MLC2; anti-MLC2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Specificity	Amino acids 12-27 of human myosin light chain protein.
Purity/Purification	Immunoaffinity Purified
Form/Format	0.02 M potassium phosphate, 0.15 M sodium chloride, pH 7.2, 0.01% sodium azide.
Concentration	0.71 mg/ml (varies by lot)
Sequence Length	172
Applicable Applications for anti-MLC2 antibody	ELISA, IP (Immunoprecipitation), WB (Western Blot), IHC (Immunohistochemistry)
Target Species	Human
Immunogen Description	Synthetic peptide from human MYL9.
Immunogen Type	Synthetic peptide
Immunogen	MLC2 / MYL9 antibody was raised against synthetic peptide from human MYL9.
Antigen Modification	aa12-27
Preparation and Storage	Long term: -20 degree C; Short term: +4 degree C. Avoid repeat freeze-thaw cycles.

IMAGES



WB (Western Blot)

Anti-Myosin Antibody - Western Blot. Western blot of anti-RLC of Smooth and Non-muscle Myosin antibody to detect vascular myosin (rat aorta, lane 1) but not cardiac myosin (mouse heart, lane2). Each lane was loaded with 35 ug of lysate. Arrowheads indicate the detection of both mono-phosphorylated (upper) and unphosphorylated (lower) forms of the protein. After blocking with 5% NGS and 0.5% BLOTTO in PBS, the membrane was probed with the primary antibody diluted in blocking buffer to 1:600 for 2 h at room temperature. The membrane was washed and reacted with a 1:10000 dilution of IRDye800 conjugated Gt-a-Rabbit IgG [H&L] MX (for 45 min at room temperature (800 nm channel, green). Molecular weight estimation was made by comparison to prestained MW markers in lane M (700 nm channel, red). IRDye800 fluorescence image was captured using the Odyssey Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.



IHC (Immunohistochemistry)

Anti-MYL9 antibody IHC of human smooth muscle. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 2.5 ug/ml.

ADDITIONAL INFORMATION

Related Product Information for anti-MLC2 antibody	Myosin, the major component of muscle filaments, is a long asymmetric molecule containing a globular head and a long tail. It is composed of two heavy chains and four light chains. Phosphorylation of myosin light chain in response to increased calcium levels leads to contraction. Myosin light chain phosphatase acts to regulate muscle contraction by dephosphorylating activated myosin light chain.
Product Categories/Family for anti-MLC2 antibody	Family: Protein Kinase Non Catalytic

NCBI AND UNIPROT INFORMATION

NCBI GI #	29568111
NCBI GeneID	10398
NCBI Accession #	NP_006088.2
NCBI GenBank Nucleotide #	NM_006097.4
UniProt Accession #	P24844 ; Q9BQL9 ; Q9BUF9 ; Q9H136 ; E1P5T6
Molecular Weight	13,866 Da
NCBI Official Full Name	myosin regulatory light polypeptide 9 isoform a
NCBI Official Synonym Full Names	myosin, light chain 9, regulatory
NCBI Official Symbol	MYL9
NCBI Official Synonym Symbols	LC20; MLC2; MRLC1; MYRL2; MLC-2C
NCBI Protein Information	myosin regulatory light polypeptide 9; myosin RLC; 20 kDa myosin light chain; myosin regulatory light chain 1; myosin regulatory light chain 9; myosin regulatory light chain MRLC1; myosin, light polypeptide 9, regulatory; myosin regulatory light chain 2, smooth muscle isoform
UniProt Protein Name	Myosin regulatory light polypeptide 9
UniProt Gene Name	MYL9
UniProt Synonym Gene Names	MLC2; MRLC1; MYRL2; LC20
UniProt Entry Name	MYL9_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.

