

Mouse anti-Human, Rat MYL2 Monoclonal Antibody | anti-MYL2 antibody

MYL2 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48057	Mouse	Human, Rat	Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot, ELISA

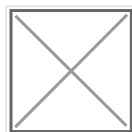
PRODUCT SYNONYMS

MYL2; Monoclonal Antibody; MYL2 antibody; Slow cardiac myosin regulatory light chain 2; MLC2; CMH10; DKFZp779C0562; Slow cardiac myosin regulatory light chain 2 Cardiac myosin light chain-2; MLC 2v; MYL 2; Cardiac ventricular myosin light chain 2; RLC of myosin; Myosin light chain 2 regulatory cardiac slow; Myosin light polypeptide 2 regulatory cardiac slow; Myosin regulatory light chain 2 ventricular cardiac muscle isoform; Myosin regulatory light chain 2 ventricular/cardiac muscle isoform; Regulatory light chain of myosin; ; anti-MYL2 antibody

PRODUCT SPECIFICATIONS

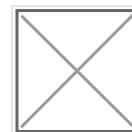
Host	Mouse
Reactivity	Human, Rat
Clonality	Monoclonal
Isotype	IgG2b, k
Clone Number	AT3B2
Purity/Purification	By protein-G affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	166
Applicable Applications for anti-MYL2 antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human MYL2 (1-166aa) purified from E. coli
Clone Note	Anti-human MYL2 mAb, clone AT3B2, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human MYL2 protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of MYL2 in A431 cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human MYL2 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

The extracts of Rat heart (60ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human MYL2 (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

ADDITIONAL INFORMATION

Related Product Information for anti-MYL2 antibody	Myosin, light chain 2 (MYL2) encodes the regulatory light chain associated with cardiac myosin beta heavy chain. It is an important protein involved in the regulation of myosin ATPase activity in smooth muscle and Ca+ triggers the phosphorylation of regulatory light chain that in turn triggers contraction. Mutations in MYL2 are associated with mid-left ventricular chamber type hypertrophic cardiomyopathy.
Product Categories/Family for anti-MYL2 antibody	Cytoskeleton
References	Macera MJ, et al., (1992) Genomics. 13 (3):829-31; Poetter K, et al., (1996) Nat Genet. 13 (1):63-9

NCBI AND UNIPROT INFORMATION

NCBI GI #	94981553
NCBI GeneID	4633
NCBI Accession #	NP_000423
NCBI GenBank Nucleotide #	NM_000432.3
UniProt Accession #	P10916; Q16123
Molecular Weight	18,789 Da
NCBI Official Full Name	myosin regulatory light chain 2, ventricular/cardiac muscle isoform
NCBI Official Synonym Full Names	myosin light chain 2
NCBI Official Symbol	MYL2
NCBI Official Synonym Symbols	MLC2; CMH10; MLC-2s/v
NCBI Protein Information	myosin regulatory light chain 2, ventricular/cardiac muscle isoform
UniProt Protein Name	Myosin regulatory light chain 2, ventricular/cardiac muscle isoform
UniProt Gene Name	MYL2
UniProt Synonym Gene Names	MLC-2s/v

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.