

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

MYL2

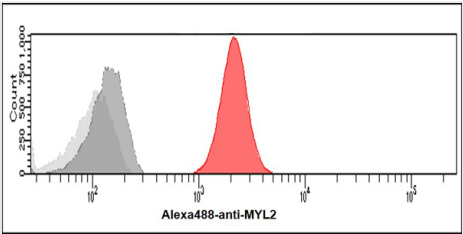
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48289	Mouse	Human	Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

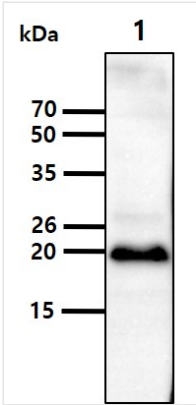
MYL2; Monoclonal Antibody; Slow cardiac myosin regulatory light chain 2; MLC2; CMH10; DKFZp779C0562; Slow cardiac myosin regulatory light chain 2 Cardiac myosin light chain-2; MLC 2v; MYL 2; Cardiac ventricular myosin light chain 2; RLC of myosin; Myosin light chain 2 regulatory cardiac slow; Myosin 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
Clonality	Monoclonal
Isotype	IgG2b kappa
Clone Number	AT3B2
Purity/Purification	Protein-A 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), WB (Western Blot), ELISA
Immunogen	Recombinant human MYL2 (1-166aa) purified from E Coli.
Conjugation	Unconjugated
Preparation and Storage	Can be stored at 2 degree C to 8 degree C for 1 week. For long term storage, aliquot and store at -20 degree C to -80 degree C. Avoid repeated freezing and thawing cycles.



FCM/FACS (Flow Cytometry)
Flow cytometry analysis of MYL2 in A431 cells. The cell was stained at 2-5ug for 1x10⁶ cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).



WB (Western Blot)
The tissue lysate(40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human MYL2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.,Lane 1.: Mouse Heart Tissue lysate

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_000423.2
NCBI GenBank Nucleotide #	NP_000423.2
UniProt Accession #	P10916
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-2; MLC-2v
UniProt Entry Name	MLRV_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.

