MYLK2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MYLK2, Polyclonal Antibody
Full Product Name	MYLK2 Antibody FITC
Product Gene Name	anti-MYLK2 antibody
Product Synonym Names	FITC-Conjugated Myosin light chain kinase 2 Antibody; KMLC antibody; MLCK antibody; MLCK2 antibody; MYLK 2 antibody; Myosin light chain kinase 2 antibody; MYOSIN LIGHT POLYPEPTIDE KINASE antibody; Myosin light polypeptide kinase, skeletal/cardiac antibody; skeletal/cardiac muscle antibody; skMLCK antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Purity/Purification	Immobilized antigen affinity chromatography
Concentration	0.5-1.5 ug/ul in antibody stabilization buffer (lot specific)
Preparation and Storage	Store at -20 degree C for long term storage.
Molecular Weight	64,685 Da
3D Structure	ModBase 3D Structure for Q9H1R3
Immunogen	Synthetic peptide taken within aino acid region 200-250 on human Myosin light chain kinase 2 protein.Synthetic peptide taken within amino acid region 10-60 on human Myosin light chain kinase 3 protein.
Conjugation	FITC
Molecular Function	ATP binding; calmodulin binding; calmodulin-dependent protein kinase activity; myosin light chain kinase activity
Subcellular Location	Cytoplasm
Applications Tested/Suitable for anti-MYLK2 antibody	ELISA (EIA), Immunoprecipitation (IP), Western Blot (WB)
Application Notes for anti-MYLK2 antibody	ELISA: 1:50,000 IP: 1:200 WB: 1:2,500-1:5,000
Related Product Information for anti-MYLK2 antibody	Overview: Implicated in the level of global muscle contraction and cardiac function. Phosphorylates a specific serine in the N-terminus of a myosin light chain. Expression: Heart and skeletal muscles. Increased expression in the apical tissue compared to the interventricular septal tissue.
Other Notes	Small volumes of anti-MYLK2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MYLK2 purchase	MBS5400545 is an antibody targeting MYLK2. Also known as MYLK2 Antibody FITC. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MYLK2. It may not necessarily be applicable to this product.

NCBI GI #	14993776
NCBI GeneID	85366
NCBI Accession #	NP_149109.1
UniProt Primary Accession #	Q9H1R3
UniProt Secondary Accession #	Q569L1; Q96I84
UniProt Related Accession #	Q9H1R3
GenBank Nucleotide #	NM_033118.3
NCBI Official Full Name	myosin light chain kinase 2, skeletal/cardiac muscle
NCBI Official Synonym Full Names	myosin light chain kinase 2
NCBI Official Symbol	MYLK2
NCBI Official Synonym Symbols	KMLC; MLCK; MLCK2; skMLCK
UniProt Protein Name	Myosin light chain kinase 2, skeletal/cardiac muscle
Protein Family	Myosin light chain kinase
UniProt Gene Name	MYLK2
UniProt Synonym Gene Names	MLCK2
NCBI Protein Information	myosin light chain kinase 2, skeletal/cardiac muscle
NCBI Summary for MYLK2	This gene encodes a myosin light chain kinase, a calcium/calmodulin dependent enzyme, that is exclusively expressed in adult skeletal muscle. [provided by RefSeq, Jul 2008]
UniProt Comments for MYLK2	Implicated in the level of global muscle contraction and cardiac function. Phosphorylates a specific serine in the N-terminus of a myosin light chain.
Research Articles on MYLK2	**1.** Chinese family with dual LQT1 and HCM phenotypes associated with tetrad heterozygous mutations in KCNQ1, MYH7, MYLK2, and TMEM70 mutations.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/mylk2/5400545