10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MLC1SA Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant MLC1SA.
Catalog # AT2877a

Product Information

Application	WB, E
Primary Accession	P14649
Other Accession	NM_002475
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	4G11
Calculated MW	22764

Additional Information

Gene ID	140465
Other Names	Myosin light chain 6B, Myosin light chain 1 slow-twitch muscle A isoform, MLC1sa, Smooth muscle and nonmuscle myosin light chain alkali 6B, MYL6B, MLC1SA
Target/Specificity	MLC1SA (NP_002466, 109 a.a. ~ 208 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	MLC1SA Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

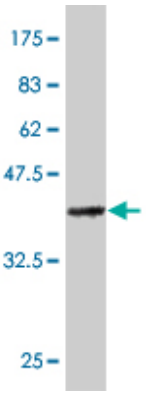
Myosin is a hexameric ATPase cellular motor protein. It is composed of two heavy chains, two nonphosphorylatable alkali light chains, and two phosphorylatable regulatory light chains. This gene encodes a myosin alkali light chain expressed in both slow-twitch skeletal muscle and in nonmuscle tissue.

References

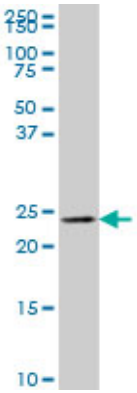
IQ motif selectivity in human IQGAP1: binding of myosin essential light chain and S100B. Pathmanathan S, et al. Mol Cell Biochem, 2008 Nov. PMID 18587628.Three myosin V structures delineate essential features of

chemo-mechanical transduction. Coureux PD, et al. EMBO J, 2004 Nov 24. PMID 15510214.The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.Smooth muscle contraction and relaxation. Webb RC. Adv Physiol Educ, 2003 Dec. PMID 14627618.Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932.

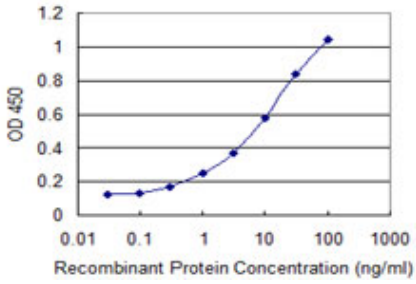
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .



MLC1SA monoclonal antibody (M01), clone 4G11 Western Blot analysis of MLC1SA expression in K-562 ((Cat # AT2877a)



Detection limit for recombinant GST tagged MYL6B is 0.1 ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.