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Myosin Light Chain 2 Recombinant Rabbit mAb

Catalog # AP96642

Product Information

Application	WB
Reactivity	Mouse
Predicted	Rat, Human
Host	Rabbit
Clonality	Recombinant
Calculated MW	20 KDa
Physical State	Liquid
Immunogen	A synthesized peptide derived from human Myosin light chain 2
Epitope Specificity	100-166/166
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS(pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 3 EF-hand domains.
SUBUNIT	Myosin is a hexamer of 2 heavy chains and 4 light chains.
Post-translational modifications	N-terminus is methylated by METTL11A/NTM1.
DISEASE	Defects in MYL2 are the cause of cardiomyopathy familial hypertrophic type 10 (CMH10) [MIM:608758]. Familial hypertrophic cardiomyopathy is a hereditary heart disorder characterized by ventricular hypertrophy, which is usually asymmetric and often involves the interventricular septum. The symptoms include dyspnea, syncope, collapse, palpitations, and chest pain. They can be readily provoked by exercise. The disorder has inter- and intrafamilial variability ranging from benign to malignant forms with high risk of cardiac failure and sudden cardiac death. Defects in MYL2 are the cause of cardiomyopathy familial hypertrophic with mid-left ventricular chamber type 2 (MVC2) [MIM:608758]. MVC2 is a very rare variant of familial hypertrophic cardiomyopathy, characterized by mid-left ventricular chamber thickening.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Thus gene encodes the regulatory light chain associated with cardiac myosin beta (or slow) heavy chain. Ca+ triggers the phosphorylation of regulatory light chain that in turn triggers contraction. Mutations in this gene are associated with mid-left ventricular chamber type hypertrophic cardiomyopathy. [provided by RefSeq, Jul 2008]

Additional Information

Other Names	MLC-2s/v; CMH10; MFM12; MLC-2; MLC-2v; MLC2; Gm32672; Mlc2v; Mylpc; MLRV_BOVIN; MYL2; Myosin light chain 2, slow skeletal/ventricular muscle isoform (MLC-2s/v); MLRV_HUMAN; Cardiac myosin light chain 2; Ventricular myosin light chain 2; MLRV_MOUSE; MLRV_RAT; myosin light chain 2; myosin, light polypeptide 2, regulatory, cardiac, slow; myosin, light chain 2, regulatory, cardiac, slow; cardiac ventricular myosin light chain 2

Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Name	Myosin Light Chain 2 Recombinant Rabbit mAb
Function	Myosin regulatory subunit that plays an important role in regulation of both smooth muscle and nonmuscle cell contractile activity via its phosphorylation. Implicated in cytokinesis, receptor capping, and cell locomotion.

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