

Human Myosin Light Chain 12B (MYL12B) ELISA Kit | MYL12B elisa kit

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CATALOG #
AAA161610

REACTIVITY
Human

PRODUCT SYNONYMS

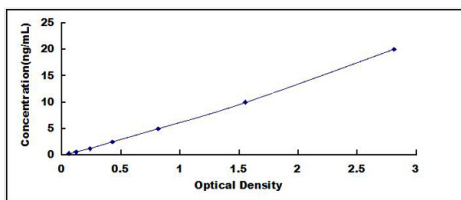
Myosin Light Chain 12B (MYL12B); Human Myosin Light Chain 12B (MYL12B) ELISA Kit; MYL12B ELISA kit (Human); MRLC2; MLC20; SHUJUN-1; Myosin Regulatory Light Chain 2; Myosin regulatory light chain 2-B; smooth muscle isoform; Myosin regulatory light chain 20 kDa; MYL12B elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Myosin Light Chain 12B (MYL12B). No significant cross-reactivity or interference between Myosin Light Chain 12B (MYL12B) and analogues was observed. Reactive with Human MYL12B/Myosin Light Chain 12B
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Method	Colormetric
Featured Series	SE kit
Detection Range	0.312-20ng/mL
Sensitivity	0.114ng/mL
Sample Size	100uL
Assay Time	3h
Function	Detects protein (regular version)
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Myosin Light Chain 12B (MYL12B) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Myosin Light Chain 12B (MYL12B) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10%, Inter-Assay: CV<12%
Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 100ul standard or sample to each well. Incubate 2 hours at 37 degree C 3. Aspirate and add 100ul prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 100ul prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 90ul Substrate Solution. Incubate 10-20 minutes at 37 degree C 8. Add 50ul Stop Solution. Read at 450nm immediately.

Test Principle	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Myosin Light Chain 12B (MYL12B). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Myosin Light Chain 12B (MYL12B). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Myosin Light Chain 12B (MYL12B), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of Myosin Light Chain 12B (MYL12B) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Research Area	Metabolic pathway
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (One year within shelf life) The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

Typical Standard Curve for MYL12B ELISA (Sandwich)

NCBI AND UNIPROT INFORMATION

NCBI GI #	205829213
NCBI GeneID	103910
UniProt Accession #	O14950; Q13182; Q7Z5Z4; D3DUH6
Molecular Weight	172
NCBI Official Full Name	Myosin regulatory light chain 12B
NCBI Official Synonym Full Names	myosin, light chain 12B, regulatory
NCBI Official Symbol	MYL12B
NCBI Official Synonym Symbols	MLC-B; MRLC2
NCBI Protein Information	myosin regulatory light chain 12B; MLC-2; MLC20; MLC-2A; SHUJUN-1; myosin regulatory light chain 2; myosin regulatory light chain MRLC2; myosin regulatory light chain 20 kDa; myosin regulatory light chain 2-B, smooth muscle isoform
UniProt Protein Name	Myosin regulatory light chain 12B
UniProt Gene Name	MYL12B
UniProt Synonym Gene Names	MRLC2; MYLC2B; MLC-2; MLC20
UniProt Entry Name	ML12B_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.