

Human Myosin Light Chain Kinase (MLCK) ELISA Kit | MLCK elisa kit

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CATALOG #
AAA331597

REACTIVITY
Human

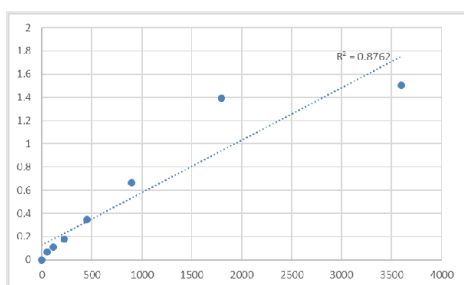
PRODUCT SYNONYMS

Myosin Light Chain Kinase (MLCK); Human Myosin Light Chain Kinase (MLCK) ELISA Kit; MYLK; DKFZp686I10125; FLJ12216; KRP; MLCK; MLCK1; MLCK108; MLCK210; MSTP083; MYLK1; smMLCK; OTTHUMP00000180642; myosin; light polypeptide kinase; smooth muscle myosin light chain kinase; MLCK elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Myosin light chain kinase (MLCK) ELISA Kit has high sensitivity and excellent specificity for detection of Human MYLK. No significant cross-reactivity or interference between Human MYLK and analogues was observed.
Sequence Length	1914
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Myosin light chain kinase (MLCK) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for MLCK elisa kit	Description: This Human Myosin light chain kinase (MLCK) ELISA Kit employs a two-site sandwich ELISA to quantitate MYLK in samples. An antibody specific for MYLK has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any MYLK present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MYLK is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of MYLK bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: MLCK, a muscle member of the immunoglobulin gene superfamily, encodes myosin light chain kinase which is a calcium/calmodulin dependent enzyme. This kinase phosphorylates myosin regulatory light chains to facilitate myosin interaction with actin filaments to produce contractile activity. MLCK encodes both smooth muscle and nonmuscle isoforms. In addition, using a separate promoter in an intron in the 3' region, it encodes telokin, a small protein identical in sequence to the C-terminus of myosin light chain kinase, that is independently expressed in smooth muscle and functions to stabilize unphosphorylated myosin filaments. A pseudogene is located on the p arm of chromosome 3. Four transcript variants that produce four isoforms of the calcium/calmodulin dependent enzyme have been identified as well as two transcripts that produce two isoforms of telokin. Additional variants have been identified but lack full length transcripts.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	116008192
NCBI GeneID	4638
NCBI Accession #	NP_444253.3
NCBI GenBank Nucleotide #	NP_444253.3
UniProt Accession #	Q15746
NCBI Official Full Name	myosin light chain kinase, smooth muscle isoform 1
NCBI Official Synonym Full Names	myosin light chain kinase
NCBI Official Symbol	MYLK
NCBI Official Synonym Symbols	KRP; AAT7; MLCK; MLCK1; MYLK1; smMLCK; MLCK108; MLCK210; MSTP083
NCBI Protein Information	myosin light chain kinase, smooth muscle
UniProt Protein Name	Myosin light chain kinase, smooth muscle
UniProt Gene Name	MYLK
UniProt Synonym Gene Names	MLCK; MLCK1; MYLK1; MLCK; smMLCK; KRP
UniProt Entry Name	MYLK_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.

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Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/myosin-light-chain-kinase-mlck/331597>