

CAB3835

Product Information

Product SKU:	CAB3835	Gene ID:	4638	Size:	20uL, 100uL
Clone No:	ARC0842	Host Species:	Rabbit	Reactivity:	Human,Rat

Additional Information

Observed MW:	130kDa/140kDa	Conjugate:	Unconjugated
Calculated MW:	211kDa	Isotype:	IgG

Immunogen Information

Background:	This gene, 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. This gene 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.
Recommended Dilution:	WB,1:500 - 1:2000
Synonyms:	KRP; AAT7; MLCK; MLCK1; MMIHS; MYLK1; MMIHS1; MYLK-L; smMLCK; MLCK108; MLCK210; MSTP083; MYLK
Purification Method:	Affinity purification
Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 1800-1900 of human MYLK (Q15746).
Storage:	Store at -20°C. Avoid freeze / thaw cycles.Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.