

Recombinant Human Myosin light chain kinase/MLCK protein ab152552

1 图像

描述	
产品名称	重组人Myosin light chain kinase/MLCK蛋白
表达系统	Wheat germ
Accession	<u>Q15746-7</u>
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	MDFRANLQRQVKPKTVSEEEKVHSPQQVDFRSVLAKKGTSK TPVPEKVP PPKPATPDFRSVLGGKKKLPAENGSSSAETLNAKAVESSKPL SNAQPSGP LKPVGNAKPAETLKPMGNAKPAETLKPMGNAKPDENLKSASK EELKKDVK NDVNCKRGHAGTTDNEKRSESQGTAPAFKQKLQDVHVAEGKK LLLQCQVS SDPPATIIWTLNGKTLKTTKFIILSQEGLCSVSIEKALPED RGLYKCVA KNDAGQAECSCQVTDDAPASENTKAPEMKSRRPKSSLPPVL GTESDATV KKKPAPKTPPKAAMPPQIIQFPEDQKVRAGESVELFGKVTGT QPITCTWM KFRKQIQESEHMKVENSENGSKLTIILAAEQEHCGCYTLLVEN KLGSRQAQ VNLTVVDKPDPPAGTPCASDIRSSSLTLSWYGSSYDGGSAVQ SYSIEIWD SANKTWKELATCRSTSFNVQDLLPDHEYKFRVRAINVYGTSE PSQESELT TVGEKPEEPKDEVEVSDDDEKEPEVDYRTVTINTEQKVSDFY DIEERLGS GKFGQVFRLVEKKTRKVVAGKFFKAYSAKEKENIRQEISIMN CLHHPKLV QCVDAFEEKANIVMLEIVSGGELFERIIDEDFELTERECIK YMRQISEG

VEYIHKQGIVHLDLKPENIMCVNKTGTRIKLIDFGLARRLEN
AGSLKVL F
GTPEFVAPEVINYEPIGYATDMWSIGVICYILVSGLSPFMGD
NDNETLAN
VTSATWDFDDEAFDEISDDAKDFISNLLKKDMKNRLDCTQCL
QHPWLMKD
TKNMEAKKLSKDRMKKYMARRKWQKTGNVRAIGRLSSMAMI
SGLSGRKS
STGSPTSPLNAEKLSEEDVSQAFLEAVAEKPHVKPYFSKT
IRDLEVVE
GSAARFDCKIEGYDPDEVVWFKDDQSIRESRHFQIDYDEDGN
CSLIISDV
CGDDDAKYTCNAVNSLGEATCTAELIVETMEEGEGEGEEEE

预测分子量	137 kDa including tags
氨基酸	1 to 992
标签	GST tag N-Terminus

技术指标

Our Abpromise guarantee covers the use of ab152552 in the following tested applications.	
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.	
应用	ELISA SDS-PAGE Western blot
形式	Liquid
补充说明	This product was previously labelled as Myosin light chain kinase.

制备和贮存

稳定性和存储	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl
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常规信息

功能	Calcium/calmodulin-dependent enzyme implicated in smooth muscle contraction via phosphorylation of myosin light chains (MLC). Also regulates actin-myosin interaction through a non-kinase activity (By similarity). Implicated in the regulation of endothelial as well as vascular permeability. In the nervous system it has been shown to control the growth initiation of astrocytic processes in culture and to participate in transmitter release at synapses formed between cultured sympathetic ganglion cells. Critical participant in signaling sequences that result in fibroblast apoptosis.
组织特异性	Smooth muscle and non-muscle isozymes are expressed in a wide variety of adult and fetal tissues and in cultured endothelium with qualitative expression appearing to be neither tissue- nor development-specific. Non-muscle isoform 2 is the dominant splice variant expressed in various

tissues. Telokin has been found in a wide variety of adult and fetal tissues.

序列相似性

Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family.

Contains 1 fibronectin type-III domain.

Contains 9 Ig-like C2-type (immunoglobulin-like) domains.

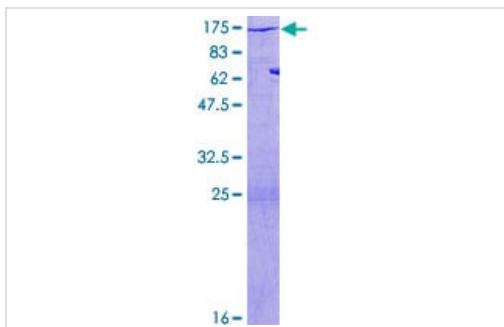
Contains 1 protein kinase domain.

翻译后修饰

MLCK is probably down-regulated by phosphorylation.

The C-terminus is deglutamyated by AGTPBP1/ CCP1, AGBL1/CCP4 and AGBL4/CCP6, leading to the formation of Myosin light chain kinase, smooth muscle, deglutamyated form. The consequences of C-terminal deglutamylation are unknown.

图片



12.5% SDS-PAGE analysis of ab152552 stained with Coomassie Blue.

SDS-PAGE - Recombinant Human Myosin light chain kinase/MLCK protein (ab152552)

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