

Recombinant human Myosin light chain kinase/MLCK protein ab55674

1 References **3 图像**

描述

产品名称	重组人Myosin light chain kinase/MLCK蛋白
生物活性	Specific Activity: 200nm/min/mg.
纯度	> 95 % Densitometry. Affinity purified.
表达系统	Insect cells
蛋白长度	Protein fragment
无动物成分	No
性质	Recombinant
种属	Human
氨基酸	1425 to 1776
标签	GST tag N-Terminus

技术指标

Our **Abpromise guarantee** covers the use of **ab55674** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	SDS-PAGE Functional Studies
形式	Liquid
补充说明	ab60014 (Mouse MYL9 full length protein) can be utilized as a substrate for assessing Kinase activity 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: 7.50 Constituents: 0.0038% EGTA, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292%
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EDTA, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride

This product is an active protein and may elicit a biological response in vivo, handle with caution.

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.

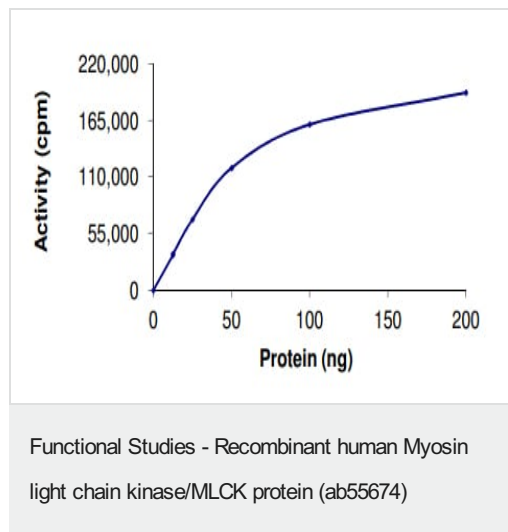
序列相似性

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.

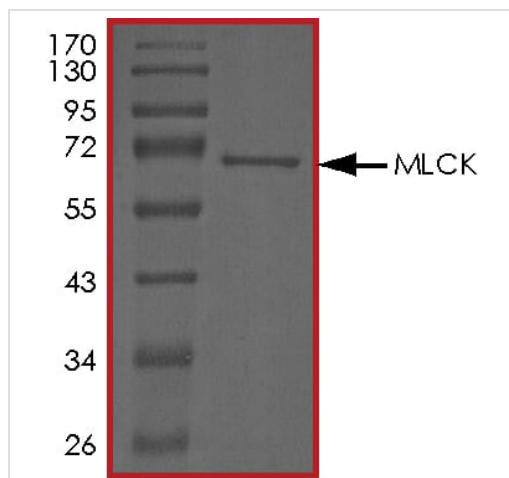
翻译后修饰

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

图片

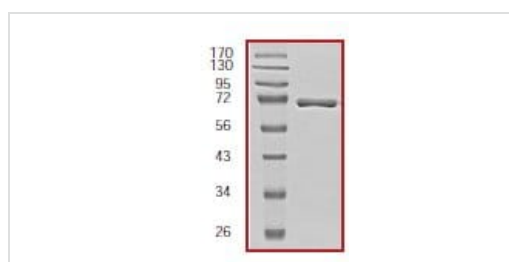


The specific activity of Myosin light chain kinase/MLCK (ab55674) was determined to be 180 nmol/min/mg as per activity assay protocol



SDS PAGE analysis of ab55674

SDS-PAGE - Recombinant human Myosin light chain kinase/MLCK protein (ab55674)



SDS-PAGE - Recombinant human Myosin light chain kinase/MLCK protein (ab55674)

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