产品名称: MYLK Rabbit Polyclonal Antibody

产品货号: APRab14315



## 产品概述 (Summary)

产品名称 (Production Name) MYLK Rabbit Polyclonal Antibody

描述 (Description) Rabbit polyclonal Antibody

宿主 (Host) Rabbit

应用 (Application)WB,IHC,ELISA种属反应性 (Reactivity)Human,Mouse,Rat

## 产品性能 (Performance)

偶联物 (Conjugation)Unconjugated修饰 (Modification)Unmodified

同种型 (Isotype) IgG

克隆 (Clonality) Polyclonal 形式 (Form) Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid 存放说明 (Storage)

freeze/thaw cycles.

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% 储存溶液 (Buffer)

New type preservative N.

纯化方式 (Purification) Affinity purification

## 免疫原信息 (Immunogen)

基因名 (Gene Name) MYLK

MYLK; MLCK; MLCK1; MYLK1; Myosin light chain kinase; smooth muscle; 别名 (Alternative Names)

MLCK; smMLCK; Kinase-related protein; KRP; Telokin

基因 ID (Gene ID) 4638.0

Q15746.The antiserum was produced against synthesized peptide derived 蛋白ID (SwissProt ID)

from human MYLK. AA range:1701-1750

## 产品应用 (Application)

**稀释比 (Dilution Ratio)** WB 1:500-1:2000,IHC 1:50-1:300,ELISA 1:2000-1:20000

蛋白分子量 (Molecular Weight) 200kDa

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#### 研究背景 (Background)

myosin light chain kinase(MYLK) Homo sapiens 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 beenalternative products:Additional isoforms seem to exist, catalytic activity:ATP + [myosin light-chain] = ADP + [myosin light-chain] phosphate.,cofactor:Calcium.,cofactor:Magnesium.,enzyme regulation:Isoform 1 is activated by phosphorylation on Tyr-464 and Tyr-471. Isoforms which lack these tyrosine residues are not regulated in this way. All catalytically active isoforms require binding to calcium and calmodulin for activation, function: Calcium/calmodulin-dependent enzyme implicated in smooth muscle contraction via phosphorylation of myosin light chains (MLC). 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, online information: Myosin lightchain kinase entry, PTM:MLCK is probably down-regulated by phosphorylation., similarity: Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family, similarity: Contains 1 fibronectin type-III domain, similarity: Contains 1 protein kinase domain., similarity: Contains 9 Iq-like C2-type (immunoglobulin-like) domains, subunit: All isoforms including Telokin bind calmodulin., tissue specificity: 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 developmentspecific. 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.,

## 研究领域 (Research Area)

Calcium; Vascular smooth muscle contraction; Focal adhesion; Regulates Actin and Cytoskeleton;

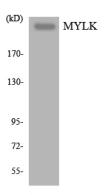
### 图片 (Image Data)

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Western blot analysis of the lysates from HT-29 cells using MYLK antibody.

# 注意事项 (Note)

For research use only .

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