MYLK (Phospho Tyr464) Rabbit pAb

CatalogNo: YP1119

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- IHC,IF,ELISA

MW
- 211kD (Calculated)

Isotype
- IgG

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

IHC 1:100-1:300
ELISA 1:10000
IF 1:50-200

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized phospho-peptide around the phosphorylation site of human MYLK (phospho Tyr464)
Specificity	Phospho-MYLK (Y464) Polyclonal Antibody detects endogenous levels of MYLK protein only when phosphorylated at Y464.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):EVyED

Target Information

Gene name MYLK MLCK MLCK1 MYLK1

Protein Name Myosin light chain kinase smooth muscle

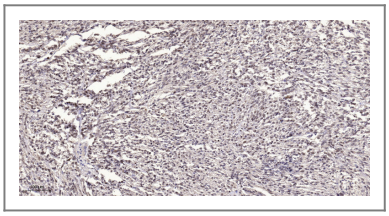
Organism	Gene ID	UniProt ID
Human	4638;	Q15746;
Mouse		Q6PDN3;

Cellular Localization Cytoplasm . Cell projection, lamellipodium . Cleavage furrow . Cytoplasm, cytoskeleton, stress fiber . Localized to stress fibers during interphase and to the cleavage furrow during mitosis. .

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 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. Accumulates in well differentiated enterocytes of the intestinal epithelium in response to tumor necrosis factor (TNF).

Function Alternative 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 light-chain 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 Ig-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 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.,

Validation Data



Immunohistochemical analysis of paraffin-embedded human small intestinal carcinoma tissue. 1,primary Antibody was diluted at 1:200 (4℃ overnight). 2, Sodium citrate pH 6.0 was used for antigen retrieval (>98℃,20min). 3,Secondary antibody was diluted at 1:200

Contact information

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Please scan the QR code to access additional product information:
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