磷酸化单丝氨酸蛋白激酶 1 抗体

产品货号： mlR18256

英文名称： phospho-LIM Kinase 1 (Thr508)

中文名称： 磷酸化单丝氨酸蛋白激酶 1 抗体

别　　名： LIM Kinase 1 (phospho T508); p-LIM Kinase 1 (phospho T508); LIMK1 (phospho T508);p-LIMK1 (phospho T508); EC 2.7.1.37; LIM domain containing protein kinase; LIM domain kinase 1; LIM motif containing protein kinase; LIMK 1; LIMK; LIMK-1; limk1; LIMK1_HUMAN.

产品类型： 磷酸化抗体

研究领域： 细胞生物　免疫学　发育生物学　神经生物学　信号转导　激酶和磷酸酶

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应： Human, Mouse, Rat, Chicken, Pig, Cow, Horse, Sheep,

产品应用： ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 ICC=1:100-500 IF=1:100-500 （石蜡切片需做抗原修复）
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

分 子 量： 73kDa

细胞定位： 细胞浆

性　　状： Lyophilized or Liquid

浓　　度： 1mg/ml

免 疫 原 ： KLH conjugated synthesised phosphopeptide derived from human LIM Kinase 1 around the phosphorylation site of Thr508:RY(p-T)VV

亚 型 ： IgG

纯化方法 ： affinity purified by Protein A

储 存 液 ： 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件 ： Store at -20 ˚C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20˚C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ˚C.

PubMed ： PubMed

产品介绍 ： There are approximately 40 known eukaryotic LIM proteins, so named for the LIM domains they contain. LIM domains are highly conserved cysteine-rich structures containing 2 zinc fingers. Although zinc fingers usually function by binding to DNA or RNA, the LIM motif probably mediates protein-protein interactions. LIM kinase-1 and LIM kinase-2 belong to a small subfamily with a unique combination of 2 N-terminal LIM motifs and a C-terminal protein kinase domain. LIMK1 is a serine/threonine kinase that regulates actin polymerization via phosphorylation and inactivation of the actin binding factor cofilin. This protein is ubiquitously expressed during development and plays a role in many cellular processes associated with cytoskeletal structure. This protein also stimulates axon growth and may play a role in brain development. LIMK1 hemizygosity is implicated in the impaired visuospatial constructive cognition of Williams syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Feb 2011]

Function:

Protein kinase which regulates actin filament dynamics. Phosphorylates and inactivates the actin binding/depolymerizing factor cofilin, thereby stabilizing the actin cytoskeleton. Stimulates axonal outgrowth and may be involved in brain development. Isoform 3 has a dominant negative effect on actin cytoskeletal changes.

Subcellular Location:

Cytoplasm. Cell projection > growth cone.

Tissue Specificity:

Highest expression in both adult and fetal nervous system. Detected ubiquitously throughout the different regions of adult brain, with highest levels in the cerebral cortex. Expressed to a lesser extent in heart and skeletal muscle.

Post-translational modifications:

Autophosphorylated.

Phosphorylated on serine and/or threonine residues by ROCK1.

May be dephosphorylated and inactivated by SSH1.

Ubiquitinated. 'Lys-48'-linked polyubiquitination by RNF6 leads to proteasomal degradation through the 26S proteasome, modulating LIMK1 levels in the growth cone and its effect on axonal outgrowth. Also polyubiquitinated by RLIM.

DISEASE:

Note=LIMK1 is located in the Williams-Beuren syndrome (WBS) critical region. WBS results from a hemizygous deletion of several genes on chromosome 7q11.23, thought to arise as a consequence of unequal crossing over between highly homologous low-copy repeat sequences flanking the deleted region.

Similarity:

Belongs to the protein kinase superfamily.

TKL Ser/Thr protein kinase family.

Contains 2 LIM zinc-binding domains.

Contains 1 PDZ (DHR) domain.

Contains 1 protein kinase domain.

SWISS:

P53667

Gene ID:

3984

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

产品图片