

产品名称: LIMK1 (1K5) Rabbit Monoclonal Antibody
产品货号: AMRe13311



产品概述 (Summary)

产品名称 (Production Name)	LIMK1 (1K5) Rabbit Monoclonal Antibody
描述 (Description)	Recombinant rabbit monoclonal antibody
宿主 (Host)	Rabbit
应用 (Application)	WB
种属反应性 (Reactivity)	Human

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	LIMK1
别名 (Alternative Names)	LIM kinase; LIMK 1; LIMK;
基因 ID (Gene ID)	3984.0
蛋白 ID (SwissProt ID)	P53667.

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:1000-1:5000
蛋白分子量 (Molecular Weight)	73kDa

研究背景 (Background)

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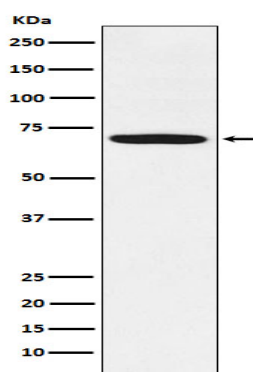
Protein kinase which regulates actin filament dynamics. Phosphorylates and inactivates the actin binding/depolymerizing factor cofilin, thereby stabilizing the actin cytoskeleton. Stimulates axonal outgrowth and may be involved in brain development. Isoform 3 has a dominant negative effect on actin cytoskeletal changes. Serine/threonine-protein kinase that plays an essential role in the regulation of actin filament dynamics. Acts downstream of several Rho family GTPase signal transduction pathways (PubMed: [10436159](http://www.uniprot.org/citations/10436159)), PubMed: [11832213](http://www.uniprot.org/citations/11832213), PubMed: [12807904](http://www.uniprot.org/citations/12807904), PubMed: [15660133](http://www.uniprot.org/citations/15660133), PubMed: [16230460](http://www.uniprot.org/citations/16230460), PubMed: [18028908](http://www.uniprot.org/citations/18028908), PubMed: [22328514](http://www.uniprot.org/citations/22328514), PubMed: [23633677](http://www.uniprot.org/citations/23633677)). Activated by upstream kinases including ROCK1, PAK1 and PAK4, which phosphorylate LIMK1 on a threonine residue located in its activation loop (PubMed: [10436159](http://www.uniprot.org/citations/10436159)). LIMK1 subsequently phosphorylates and inactivates the actin binding/depolymerizing factors cofilin-1/CFL1, cofilin-2/CFL2 and destrin/DSTN, thereby preventing the cleavage of filamentous actin (F-actin), and stabilizing the actin cytoskeleton (PubMed: [11832213](http://www.uniprot.org/citations/11832213), PubMed: [15660133](http://www.uniprot.org/citations/15660133), PubMed: [16230460](http://www.uniprot.org/citations/16230460), PubMed: [23633677](http://www.uniprot.org/citations/23633677)). In this way LIMK1 regulates several actin-dependent biological processes including cell motility, cell cycle progression, and differentiation (PubMed: [11832213](http://www.uniprot.org/citations/11832213), PubMed: [15660133](http://www.uniprot.org/citations/15660133), PubMed: [16230460](http://www.uniprot.org/citations/16230460), PubMed: [23633677](http://www.uniprot.org/citations/23633677)). Phosphorylates TPPP on serine residues, thereby promoting microtubule disassembly (PubMed: [18028908](http://www.uniprot.org/citations/18028908)). Stimulates axonal outgrowth and may be involved in brain development (PubMed: [18028908](http://www.uniprot.org/citations/18028908)).

研究领域 (Research Area)

Neuroscience

图片 (Image Data)

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Western blot analysis of LIM Kinase 1 expression in U-87MG cell lysate.

注意事项 (Note)

For research use only .