

Datasheet for ABIN7091334

anti-LIM Domain Kinase 1 antibody (AA 459-508)[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	LIM Domain Kinase 1 (LIMK1)
Binding Specificity:	AA 459-508
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This LIM Domain Kinase 1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human LIMK1
Clone:	L6K5
Predicted Reactivity:	Human, Mouse

Target Details

Target:	LIM Domain Kinase 1 (LIMK1)
Alternative Name:	LIMK1 (LIMK1 Products)
Background:	Synonyms: EC 2.7.11.1, LIM domain kinase 1, LIM motif-containing protein kinase, LIMK, LIMK-1, LIMK2, LIMK-2, LIM domain kinase 2, LIMK1_HUMAN. Background: 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

Target Details

pathways. Activated by upstream kinases including ROCK1, PAK1 and PAK4, which phosphorylate LIMK1 on a threonine residue located in its activation loop. 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. In this way LIMK1 regulates several actin-dependent biological processes including cell motility, cell cycle progression, and differentiation. Phosphorylates TPPP on serine residues, thereby promoting microtubule disassembly. Stimulates axonal outgrowth and may be involved in brain development. Isoform 3 has a dominant negative effect on actin cytoskeletal changes.

Gene ID:	3984
UniProt:	P53667
Pathways:	Caspase Cascade in Apoptosis , Regulation of Cell Size , CXCR4-mediated Signaling Events

Application Details

Application Notes:	WB 1:300-5000
Restrictions:	For Research Use only

Handling

Concentration:	0.5 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months