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PRODUCT DATASHEET

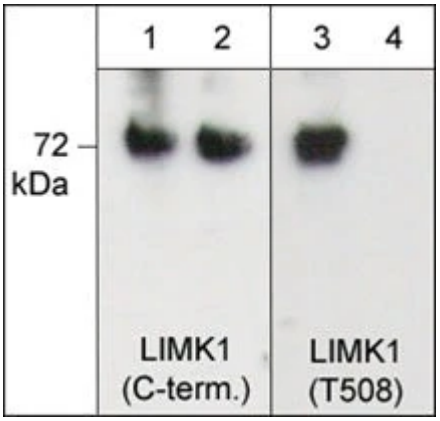
Anti-LIMK1 (Thr-508) [LIMK2 (Thr-505], Phosphospecific Antibody

Product Details

Available Variants	100 µL (SKU:LP1891)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	LIMK1
Host Species	Rabbit
Format	Antigen Affinity Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, WB
Dilution Ranges	WB: 1:1000
Species Reactivity	Human, Mouse, Rat
Immunogen	LIMK1 (Thr-508) synthetic peptide (coupled to carrier protein) corresponding to amino acids surrounding threonine 508 in human LIMK1. This sequence is conserved in rat and mouse LIMK1, and has high homology to Thr-505 in human LIMK2.
Specificity	The antibody detects a 72 kDa* protein corresponding to the molecular mass of LIMK1 on SDS-PAGE immunoblots of activated mouse recombinant LIMK1, but does not detect this protein after lambda phosphatase treatment.
Molecular Weight	72
Quality Control	Western blots performed on each lot.
Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.

UniProt ID	P53667 UniProt Summary: 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. 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.
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
Post Translational Modification Type	Phosphorylated
Post Translational Modification Residue	Thr-508
NCBI Gene ID	3984

Product Images



Western blot image of activated mouse recombinant LIMK1 untreated (lanes 1 & 3) or treated with lambda phosphatase (lanes 2 & 4). The blots were probed with anti-LIMK1 (C-term.) (lanes 1 & 2) and anti-LIMK1 (Thr-508) (lanes 3 & 4).



Created on 30. October 2026 | All information without guarantee