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PRODUCT DATASHEET

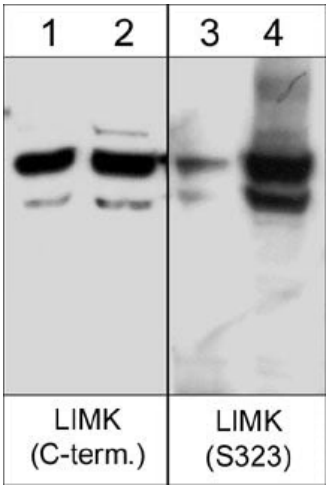
Anti-LIMK1 (Ser-323) [LIMK2 (Ser-314)], Phosphospecific Antibody

Product Details

Available Variants	100 µL (SKU:LP2431)
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 (Ser-323) synthetic peptide (coupled to carrier protein) corresponding to amino acids surrounding serine 323 in human LIMK1. This sequence is conserved in rat and mouse LIMK1, and has high homology to Ser-314 in human LIMK2.
Specificity	This antibody was cross-adsorbed to unphosphorylated LIMK1 (Ser-323) peptide then affinity purified using LIMK1 (Ser-323) peptide (without carrier). The antibody detects a protein with the same mobility as anti-LIMK1 (C-terminus, LP1831) in human A431 cells treated with calyculin A. This band is weak in control cells and is not detected 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	Ser-323
NCBI Gene ID	3984

Product Images



Western blot image of human A431 cells untreated (lanes 1 & 3) or treated (lanes 2 & 4)with calyculin A (100 nM for 30 min) . The blots were probed with anti-LIMK1 (C-terminus) (lanes 1 & 2) or anti-LIMK1 (Ser-323) (lanes 3 & 4).