

phospho-LIMK1 (Thr-508) Peptide | LIMK1 peptide

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CATALOG # AAA71542	APPLICATIONS ELISA
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PRODUCT SYNONYMS

phospho-LIMK1 (Thr-508) Peptide; LIMK1 peptide

PRODUCT SPECIFICATIONS

Specificity	The peptide is specifically recognized by LIMK1 (Thr-508) antibody (LP1891) in ELISA, and has been shown to block the reactivity of LP1891 in Western blot and immunocytochemistry.
Form/Format	Blocking Peptide is supplied in 50ul phosphate-buffered saline and 0.05% sodium azide.
Applicable Applications for LIMK1 peptide	Blocking, ELISA
Sequence	Peptide Sequence: Phospho-LIMK1 (Thr-508) synthetic peptide 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.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

ADDITIONAL INFORMATION

Related Product Information for LIMK1 peptide	LIM kinases (LIMK1 and LIMK2) are serine/threonine kinases that have two zinc finger motifs, known as LIM motifs, in their aminoterminal regulatory domains. LIM kinases are involved in actin cytoskeletal regulation downstream of Rho-family GTPases, PAKs, and ROCK. PAK1 and ROCK phosphorylate LIMK1 or LIMK2 at the conserved Thr-508 or Thr-505 residues in the activation loop, increasing LIMK activity. In addition, VEGF-induced stress fiber formation has been linked to p38-mediated activation of LIMK through MK-2 phosphorylation of Ser-323. Activated LIM kinases inhibit the actin depolymerization activity of cofilin by phosphorylation at the amino-terminal Ser-3 residue of cofilin. In addition, LIMKs may have a function in the nucleus. It has been shown that the nuclear localization of LIMKs can mediate suppression of Rac/Cdc42-mediated cyclin D1 expression. This effect of LIMKs was independent of cofilin phosphorylation and the regulation of actin dynamics.
References	- Okano, I. et al. (1995) J. Biol. Chem. 270:31321. - Edwards, D. C. et al. (1999) Nat. Cell Biol. 1:253. - Kobayashi, M. et al. (2006) EMBOJ 25:713.

NCBI AND UNIPROT INFORMATION

NCBI GI #	324715046
NCBI GeneID	3984
NCBI Accession #	NP_001191355.1
NCBI GenBank Nucleotide #	NM_001204426.1
UniProt Accession #	P53667; O15283; Q15820; Q15821; Q75MU3; Q9Y5Q1; D3DXF4; D3DXF5; Q59FA3; Q75MU0; Q75MU4
NCBI Official Full Name	LIM domain kinase 1 isoform 2
NCBI Official Synonym Full Names	LIM domain kinase 1
NCBI Official Symbol	LIMK1

NCBI Official Synonym Symbols	LIMK; LIMK-1
NCBI Protein Information	LIM domain kinase 1; OTTHUMP00000160532; OTTHUMP00000211913; LIM motif-containing protein kinase
UniProt Protein Name	LIM domain kinase 1
UniProt Gene Name	LIMK1
UniProt Synonym Gene Names	LIMK
UniProt Entry Name	LIMK1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/peptide/phospho-limk1-thr-508-peptide/71542>