LIMK2 Blocking Peptide – >85% Purity

PRODUCT OVERVIEW

Product Name	LIMK2, Blocking Peptide
Full Product Name	LIMK2 Blocking Peptide
Product Gene Name	LIMK2 blocking peptide
Product Synonym Names	LIM domain kinase 2; LIMK-2
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	>85%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Antibody/Peptide Pairs	LIMK2 peptide (MBS822813) is used for blocking the activity of LIMK2 antibody (MBS820766)
OMIM	601988
Quality Control	The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry.
Applications Tested/Suitable for LIMK2 blocking peptide	Blocking (BL)
Application Notes for LIMK2 blocking peptide	Blocking Peptide to the diluted primary antibody in a molar ratio of 10:1 (peptide to antibody) and incubate the mixture at 4 degree C for overnight or at room temperature for 2 hours.
Related Product Information for LIMK2 blocking peptide	MBS822813 is a blocking peptide targeting LIMK2. Reactive in Human. Host: Synthetic. The peptide is used to block Anti-LIMK2 Antibody reactivity.
Other Notes	Small volumes of LIMK2 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LIMK2. It may not necessarily be applicable to this product.

NCBI GI #	73390140
NCBI GeneID	3985
NCBI Accession #	NP_001026971.1
UniProt Primary Accession #	P53671
UniProt Secondary Accession #	Q7KZ80; Q7L3H5; Q96E10; Q99464; Q9UFU0; A8K6H5
UniProt Related Accession #	P53671
GenBank Nucleotide #	NM_001031801.1
NCBI Official Full Name	LIM domain kinase 2 isoform 1
NCBI Official Synonym Full Names	LIM domain kinase 2
NCBI Official Symbol	LIMK2

UniProt Protein Name	LIM domain kinase 2
Protein Family	LIM domain kinase
UniProt Gene Name	LIMK2
UniProt Synonym Gene Names	LIMK-2
UniProt Entry Name	LIMK2_HUMAN
NCBI Protein Information	LIM domain kinase 2
NCBI Summary for LIMK2	There are approximately 40 known eukaryotic LIM proteins, so named for the LIM domains they contain. LIM domains are highly conserved cysteine-rich structures containing 2 zinc fingers. Although zinc fingers usually function by binding to DNA or RNA, the LIM motif probably mediates protein-protein interactions. LIM kinase-1 and LIM kinase-2 belong to a small subfamily with a unique combination of 2 N-terminal LIM motifs and a C-terminal protein kinase domain. The protein encoded by this gene is phosphorylated and activated by ROCK, a downstream effector of Rho, and the encoded protein, in turn, phosphorylates cofilin, inhibiting its actin-depolymerizing activity. It is thought that this pathway contributes to Rho-induced reorganization of the actin cytoskeleton. At least three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for LIMK2	LIMK2: a TKL kinase of the LISK family that regulates actin dynamics. Contains two N-terminal LIM motifs. Phosphorylated and activated by PAK1 and ROCK, downstream effectors of Rho. Phosphorylates cofilin, inhibiting its actin-depolymerizing activity. May contributes to Rho-induced reorganization of the actin cytoskeleton. Two alternative splice variants have been identified. Protein type: EC 2.7.11.1; Protein kinase, Ser/Thr (non-receptor); Protein kinase, TKL; Kinase, protein; TKL group; LISK family; LIMK subfamily Chromosomal Location of Human Ortholog: 22q12.2 Cellular Component: cis-Golgi network; cytoplasm; nucleus Molecular Function: protein serine/threonine kinase activity; protein binding; zinc ion binding; protein heterodimerization activity; ATP binding Biological Process: spermatogenesis; protein amino acid phosphorylation; phosphorylation
Research Articles on LIMK2	**1.** results highlight the exciting possibility of combining specific LIMK2 inhibitors with anticancer drugs in the treatment of multi-drug resistant cancers
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