Recombinant Human LIMK2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. LIMK2-5545H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	LIMK2 MS Standard C13 and N15-labeled recombinant protein (NP_057952) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	69.7 kDa
AA Sequence	MGSYLSVPAYFTSRDLFRCSECQDSLTNWYYEKDGKLYCPKDYWGKFGEFCHGCS LLMTGPFMVAGEFKYHPECFACMSCKVIIEDGDAYALVQHATLYCGKCHNEVVLAP

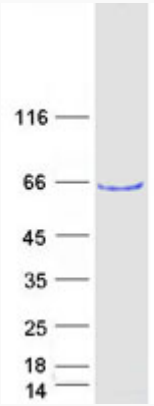
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	MFERLSTESVQEQLPYSVTLISMPATTEGRRGFSVSVESACSNYATTVQVKEVNRM HISPNNRNAIHPGDRILEINGTPVRTLRVEEVEDAISQTSQTLQLLIEHDPVSQRLDQL RLEARLAPHMQNAGHPHALSTLDTKENLEGTLRRRSLRRSNSISKSPGPSSPKEPLL FSRDISRSESLRCSSSYSQQIFRPCDLIHGEVLGKGFFGQAIKVTHKATGKVMVMKE LIRCDEETQKTFLTEVKVMRSLDHPNVLKFIGVLYKDKKLNLLTEYIEGGTLKDFLRSM DPFPWQQKVRFAKGIASGMAYLHSMCIIHRDLNSHNCLIKLDKTVVVADFGLSRLIVE ERKRAPMEKATTKKRTLRKNDRKKRYTVVGNPYWMAPEMLNGKSYDETVDIFSFGI VLCEIIGQVYADPDCLPRTLDFGLNVKLFWEKFVPTDCPPAFFPLAAICCRLEPESRP AFSKLEDSFEALSLYLGELGIPLPAELEELDHTVSMQYGLTRDSPPTRTRPLEQKLIS EEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	LIMK2 LIM domain kinase 2 [Homo sapiens (human)]
Official Symbol	LIMK2
Synonyms	LIMK2; LIM domain kinase 2; LIM domain kinase 2; EC 2.7.11.1
Gene ID	3985

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mRNA Refseq	NM_016733
Protein Refseq	NP_057952
MIM	601988
UniProt ID	P53671
SDS-PAGE	

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