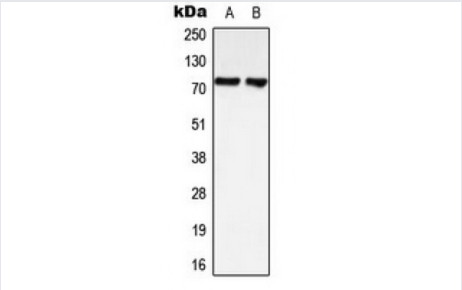
LIMK1/2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	LIMK1/2, Polyclonal Antibody
Full Product Name	LIMK1/2 Antibody
Product Gene Name	anti-LIMK1/2 antibody
Product Synonym Names	Purified Polyclonal LIMK1/2 Antibody; Polyclonal LIMK1/2 antibody; Anti-LIMK1/2 antibody; LIMK antibody; LIM domain kinase 1 antibody; LIMK-1 antibody
Clonality	Polyclonal
Host	Rabbit
Form/Format	Supplied in liquid form in 0.42% Potassium Phosphate, 0.87% Sodium Chloride, pH 7.3 with 30% Glycerol and 0.01% Sodium Azide
Purity/Purification	Immunogen Affinity Chromatography
Specificity	Recognizes endogenous levels of LIMK1/2 protein
Preparation and Storage	Store at 4 degree C for short term storage. For long term, aliquot and store at -20 degree C. Avoid repeat freeze/thaw cycles.
OMIM	601329
3D Structure	ModBase 3D Structure for P53667
Immunogen	LIMK1/2 antibody was raised in Rabbit using a KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human LIMK1/2 as the immunogen
Cross-Reactivity	Mouse, Rat, Bovine, Cat
Product Categories/Family for anti-LIMK1/2 antibody	Proteases; Inhibitors; & Enzymes
Applications Tested/Suitable for anti-LIMK1/2 antibody	Western Blot (WB), Immunoprecipitation (IP)
Application Notes for anti-LIMK1/2 antibody	WB: 1:500-1:1000 IP: 1:10-1:100
Related Product Information for anti-LIMK1/2 antibody	LIMK1 and LIM kinase-2 belong to a small subfamily with a unique combination of 2 N-terminal LIM motifs, a central PDZ domain, and a C-terminal protein kinase domain. LIMK1 is likely to be a component of an intracellular signaling pathway and may be involved in brain development.
Other Notes	Small volumes of anti-LIMK1/2 antibody 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.
Searchable Terms for LIMK1/2 purchase	MBS5316191 is an antibody targeting LIMK1/2. Also known as LIMK1/2 Antibody. Host: Rabbit.



Western Blot (WB) of anti-LIMK1/2 antibody
Western blot analysis of LIMK1/2 expression in HeLa (A); SHSY5Y (B) whole cell lysates.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LIMK1/2. It may not necessarily be applicable to this product.

NCBI GI #	324715046
NCBI GeneID	3984
UniProt Primary Accession #	P53667
UniProt Related Accession #	P53667
GenBank Nucleotide #	NP_001191355.1
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
UniProt Protein Name	LIM domain kinase 1
UniProt Gene Name	LIMK1
UniProt Synonym Gene Names	LIMK; LIMK-1
UniProt Entry Name	LIMK1_HUMAN
NCBI Protein Information	LIM domain kinase 1
NCBI Summary for LIMK1/2	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. LIMK1 is a serine/threonine kinase that regulates actin polymerization via phosphorylation and inactivation of the actin binding factor cofilin. This protein is ubiquitously expressed during development and plays a role in many cellular processes associated with cytoskeletal structure. This protein also stimulates axon growth and may play a role in brain development. LIMK1 hemizygosity is implicated in the impaired visuospatial constructive cognition of Williams syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Feb 2011]

UniProt Comments for LIMK1/2	LIMK1: a TKL kinase of the LISK family which mediates Rho signaling to cytoskeleton. Contains two N-terminal LIM motifs. Phosphorylated and activated by PAK1 and ROCK, downstream effectors of Rho. May be involved in brain development. Phosphorylates and inactivates the actin binding/depolymerizing factor cofilin and induces actin cytoskeletal changes. The LIM domain interacts with the cytoplasmic domain of NRG1. Binds ROCK1. Interacts with slingshot 1. Overexpressed in prostate tumors and prostate and breast cancer cell lines; manipulation of activity correlates with invasiveness in breast and prostate cancer models. Located within the 7q11.2 amplicon associated with metastatic prostate cancer. Loss of one copy of LIMK1 is the likely cause of visuospatial cognition defects seen in small chromosomal deletions associated with dominant Williams-Beuren syndrome Three splice variant have been identified. Protein type: Protein kinase, TKL; Kinase, protein; EC 2.7.11.1; Protein kinase, Ser/Thr (non-receptor); TKL group; LISK family; LIMK subfamily Chromosomal Location of Human Ortholog: 7q11.23 Cellular Component: nucleoplasm; neuron projection; focal adhesion; cytoplasm; cytosol Molecular Function: protein serine/threonine kinase activity; protein binding; zinc ion binding; protein heterodimerization activity; heat shock protein binding; ATP binding; protein kinase activity Biological Process: axon guidance; nervous system development; positive regulation of axon extension; positive regulation of stress fiber formation; negative regulation of ubiquitin-protein ligase activity; ephrin receptor signaling pathway; innate immune response; positive regulation of actin filament bundle formation; actin cytoskeleton organization and biogenesis; signal transduction; protein amino acid phosphorylation; Rho protein signal transduction Disease: Williams-beuren Syndrome
Research Articles on LIMK1/2	**1.** Our findings revealed that increased LIMK1 protein levels may contribute to atrial fibrosis, and suggested that LIMK1 might be involved in AF development by promoting fibrogenesis associated with TGF-beta
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