

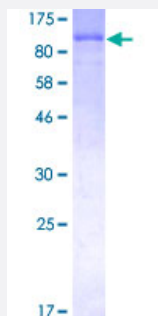
Full-Length

LIMK1 (Human) Recombinant Protein (P01)

Catalog # H00003984-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human LIMK1 full-length ORF (NP_002305.1, 1 a.a. - 647 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MRLTLLCCTWREERMGEEGSELPVCASCGQRIDGQYLQALNADWHADCFRCCDCSASLSHQY
YEKDGQLFCKKDYWARYGESCHGCSEQITKGLVMVAGELKYHPECFICLTCTGTFIGDGDYTLVE
HSKLYCGHCYYQTVVTPVIEQILPDSPGSHLPHTVTLVSIPASSHGKRGLSVSIDPPHGGPGCGTE
HSHTVRVQGVDPGCMSPDVKNSIHVGDRILEINGTPIRNVPLDEIDLLIQETSRLLQLTLEHDPHDTL
GHGLGPETSPLSSPAYTPSGEAGSSARQKPVLRSCLDRSPGAGSLGSPASQRKDLGRSESLRV
VCRPHRIFRPSDLIHGEVLGKGCFGQAIKVTHRETGEVMVMKELIRFDEETQRTFLKEVKVMRCLE
HPNVLKFIGVLYKDKRLNFITEYIKGGTLRGIKSMDSQYPWSQQRVSFAKDASGMAYLHSMNIIHRDL
NSHNCLVRENKNVVVADFGRLRMVDEKTQPEGLRSLKKPDRKKRYTVVGNPYWMAPEMINGR
SYDEKVDVFSFGVLCEIIGRVNADPDYLPRTMDFGLNVRGFLDRYCPPNCPPSFFPITVRCCDLD
PEKRPSFVKLEHWLETLRMHLAGHLPLGPQLEQLDRGFWEITYRRGESGLPAHPEVPD

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

96.8

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — LIMK1

Entrez GeneID	3984
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GeneBank Accession#	NM_002314.2
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Protein Accession#	NP_002305.1
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Gene Name	LIMK1
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Gene Alias	LIMK
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Gene Description	LIM domain kinase 1
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Omim ID	601329
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Gene Ontology	Hyperlink
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Gene Summary	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 likely to be a component of an intracellular signaling pathway and may be involved in brain development. LIMK1 hemizyosity is implicated in the impaired visuospatial constructive cognition of Williams syndrome. [provided by RefSeq]
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Other Designations	LIM motif-containing protein kinase OTTHUMP00000025066
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Publication Reference

- [LIMK Regulates Tumor-Cell Invasion and Matrix Degradation Through Tyrosine Phosphorylation of MT1-MMP.](#)

Lagoutte E, Villeneuve C, Lafanechere L, Wells CM, Jones GE, Chavrier P, Rosse C.

Scientific Reports 2016 Apr; 6:24925.

Application: Incubated, Recombinant protein

Pathway

- [Axon guidance](#)
- [Fc gamma R-mediated phagocytosis](#)
- [Regulation of actin cytoskeleton](#)

Disease

- [Brain Ischemia](#)
- [Cerebral Hemorrhage](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Genetic Predisposition to Disease](#)
- [Intracranial Aneurysm](#)
- [Metabolic Syndrome X](#)
- [Renal Insufficiency](#)
- [Stroke](#)
- [Werner syndrome](#)