Recombinant Mouse LIM domain kinase 2 (Limk2)

Product Code	CSB-BP012953MO
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O54785
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	>85% (SDS-PAGE)
Sequence	MAALAGDEAW RCRGCGTYVP LSQRLYRTAN EAWHGSCFRC SECQESLTNW YYEKDGKLYC HKDYWAKFGE FCHGCSLLMT GPAMVAGEFK YHPECFACMS CKVIIEDGDA YALVQHATLY CGKCHNEVVL APMFERLSTE SVQDQLPYSV TLISMPATTE CRRGFSVTVE SASSNYATTV QVKEVNRMHI SPNNRNAIHP GDRILEINGT PVRTLRVEEV EDAIKQTSQT LQLLIEHDPV PQRLDQLRLD ARLPPHMQST GHTLMLSTLD TKENQEGTLR RRSLRRSNSI SKSPGPSSPK EPLLLSRDIS RSESLRCSSS YSQQIFRPCD LIHGEVLGKG FFGQAIKVTH KATGKVMVMK ELIRCDEETQ KTFLTEVKVM RSLDHPNVLK FIGVLYKDKK LNLLTEYIEG GTLKDFLRSV DPFPWQQKVR FAKGISSGMA YLHSMCIIHR DLNSHNCLIK LDKTVVVADF GLSRLIVEER KRPPVEKATT KKRTLRKSDR KKRYTVVGNP YWMAPEMLNG KSYDETVDVF SFGIVLCEII GQVYADPDCL PRTLDFGLNV KLFWEKFVPT DCPPAFFPLA AICCKLEPES RPAFSKLEDS FEALSLFLGE LAIPLPAELE DLDHTVSMEY GLTRDSPP
Source	Baculovirus
Target Names	Limk2
Protein Names	Recommended name: LIM domain kinase 2 Short name= LIMK-2 EC= 2.7.11.1
Expression Region	1-638
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	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. This protein 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.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.