



Recombinant Rat LIM domain kinase 2 (Limk2)

Product Code	CSB-YP012953RA
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P53670
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	MAALAGEEAW RCRGCGNYVP LSQRLYRTAN EAWHSSCFRC SECQESLTNW YYEKDGKLYC HKDYWAKFGE FCHGCSLLMT GPAMVAGEFK YHPECFACMS CKVIIEDGDA YALVQHATLY CGKCHNEVVL APMFERLSTE SVQDQLPYSV TLISMPATTE CRRGFSVSVE SASSNYATTV QVKEVNRMI SPNNRNAIHP GDRILEINGT PVRTLVEEV EDAINQTSQT LQLLIEHDPV PQRLDQLRLD TRLSPHMQSS GHTLMLSTLD AKENQEGTLR RRSLRRNSI SKSPGPSSPK EPLLSRDIS RSESLRCSSS YSQQIFRPCD LIHGEVLGKG FFGQAIKVTH KATGKVMVMK ELIRCDEETQ KTFLEVKVM RSLDHPNVLK FIGVLYKDKK LNLLEYIEG GTLKDFLRNV DFPWQQKVR FAKGIASGMA YLHSMCIHR DLNSHNCLIK LDKTVVADF GLSRLIVEER KRPPVEKAAT KKRTLKSDR KKRYTVVGNP YWMAPEMLNG KSYDETVDVF SFGIVLCEII GQVYADPDCL PRTLDFGLNV KLFWEKFPVT DCPPAFFPLA AICCKLEPES RPAFSKLEDS FEALSLFLGE LAIPLPAELE ELDHTVSMEY GLTRDSPP
Source	Yeast
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.