

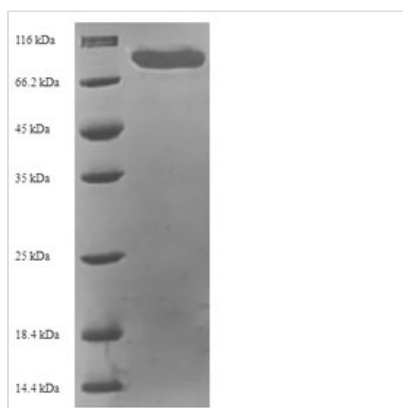


Recombinant Human Target of rapamycin complex 2 subunit MAPKAP1 (MAPKAP1)

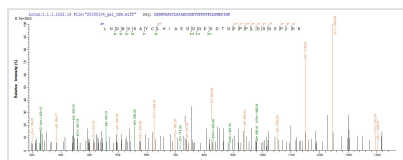
Product Code	CSB-EP857767HU
Relevance	Subunit of mTORC2, which regulates cell growth and survival in response to hormonal signals. mTORC2 is activated by growth factors, but, in contrast to mTORC1, seems to be nutrient-insensitive. mTORC2 seems to function upstream of Rho GTPases to regulate the actin cytoskeleton, probably by activating one or more Rho-type guanine nucleotide exchange factors. mTORC2 promotes the serum-induced formation of stress-fibers or F-actin. mTORC2 plays a critical role in AKT1 'Ser-473' phosphorylation, which may facilitate the phosphorylation of the activation loop of AKT1 on 'Thr-308' by PDK1 which is a prerequisite for full activation. mTORC2 regulates the phosphorylation of SGK1 at 'Ser-422'. mTORC2 also modulates the phosphorylation of PRKCA on 'Ser-657'. Within mTORC2, MAPKAP1 is required for complex formation and mTORC2 kinase activity. MAPKAP1 inhibits MAP3K2 by preventing its dimerization and autophosphorylation. Inhibits HRAS and KRAS signaling. Enhances osmotic stress-induced phosphorylation of ATF2 and ATF2-mediated transcription. Involved in ciliogenesis, regulates cilia length through its interaction with CCDC28B independently of mTORC2 complex.
Abbreviation	Recombinant Human MAPKAP1 protein
Storage	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.
Uniprot No.	Q9BPZ7
Alias	Mitogen-activated protein kinase 2-associated protein 1 Stress-activated map kinase-interacting protein 1 Short name: SAPK-interacting protein 1 Short name: mSIN1
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	AFLDNPTIILAHIRQSHVTSDDTGMCEMVLIDHDVDLEKIHPPSMPGDSGSEIQ GSNGETQGYYVAQSVDITSSWDFGIRRRSNTAQRLELRKERQNQIKCKNIQ WKERNKQSAQELKSLFEKKSLEKPPISGKQSILSVRLEQCPLQLNPFNEY SKFDGKGHVGTATKKIDVYLPLHSSQDRLLPMTVVTMASARVQDLIGLICWQ YTSEGREPKLNDNVSAyclhiaEDDGEVDTFPPLDSNEPIHKFGFSTLALVEK YSSPGLTSKESLFRINAAGFSLIQVDNTKVTMKEILLKAVKRRKGSQKVSGP QYRLEKQSEPNVAVDL DSTLESQSAWEFCLVRENSSRADGVFEEDSQIDIATV QDMLSSHYSFKVSMIHRLRFTTDVQLGISGDKVEIDPVTNQKASTKFWIKQK PISIDSDLLCACDLAEEKSPSHAIFKLTYSNHDYKHL YFESDAATVNEIVLKVNY ILESRASTARADYFAQKQRKLNRRTSFSFQKEKKSQQ



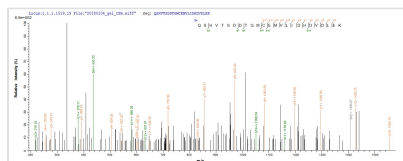
Research Area	Signal Transduction
Source	E.coli
Target Names	MAPKAP1
Expression Region	2-522aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	75.0kDa
Protein Length	Full Length of Mature Protein

Image


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP857767HU could indicate that this peptide derived from E.coli-expressed Homo sapiens (Human) MAPKAP1.



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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.