



Recombinant Human CLIP-associating protein 2 (CLASP2)

Product Code	CSB-CF005472HU
Relevance	Microtubule plus-end tracking protein that promotes the stabilization of dynamic microtubules (PubMed:26003921). Involved in the nucleation of noncentrosomal microtubules originating from the trans-Golgi network (TGN). Required for the polarization of the cytoplasmic microtubule arrays in migrating cells towards the leading edge of the cell. May act at the cell cortex to enhance the frequency of rescue of depolymerizing microtubules by attaching their plus-ends to cortical platforms composed of ERC1 and PHLDB2 (PubMed:16824950). This cortical microtubule stabilizing activity is regulated at least in part by phosphatidylinositol 3-kinase signaling. Also performs a similar stabilizing function at the kinetochore which is essential for the bipolar alignment of chromosomes on the mitotic spindle (PubMed:16866869, PubMed:16914514). Acts as a mediator of ERBB2-dependent stabilization of microtubules at the cell cortex.
Abbreviation	Recombinant Human CLASP2 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.	O75122
Product Type	Transmembrane Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	MRRLLICKRICDYKSFDDDEESVDGNRPSSAASAFKVPAPKTSGNPANSARKPGS AGGPKVGGASKEGGAGAVDEDDFIKAFTDVPISIQIYSSRELEETLNKIREILSDD KHDWDQRANALKKIRSLVAGAAQYDCFFQHLRLLDGALKLSAKDLRSQVVRE ACITVAHLSTVLGNKFDHGAEAIVPTLFNLVPNSAKVMATSGCAAIRFIIRHHTV PRLIPLITSNCTSKSVPVRRRSFEFLDLLLQEWQTHSLERHAAVLVETIKKGIHD ADAEARVEARKTYMGLRNHFPGEAETLYNSLEPSYQKSLQTYLKSSGGSVASLP QSDRSSSSSQESLNRPFSSKWSTANPSTVAGRVSAGSSKASSLPGLSLQRSRS DIDVNAAAGAKAHHAAAGQSVRSGRLGAGALNAGSYASLECEAFWRSGRTAKL YSV
Research Area	Cell Biology
Source	in vitro E.coli expression system
Target Names	CLASP2
Protein Names	Cytoplasmic linker-associated protein 2 Protein Orbit homolog 2 Short name: hOrbit2
Expression Region	1-431aa



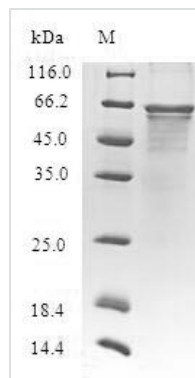
Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Tag Info N-terminal 6xHis-B2M-tagged

Mol. Weight 60.5kDa

Protein Length Full Length of Isoform 2

Image



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

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.