

Recombinant Human CLASP2 Protein (1-431 aa), His-B2M-tagged

Cat. No. CLASP2-2730H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Human CLASP2 Protein (1-431 aa) is produced by in vitro E. coli expression system. This protein is fused with a 6xHis-B2M tag at the N-terminal. Research Area: Cell Biology. Protein Description: Full Length of Isoform 2.

Species

Human

Source

E.coli

ProteinLength

1-431 aa

Description

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.

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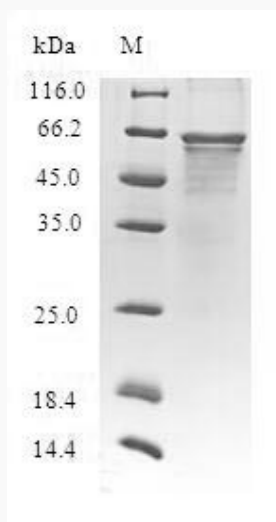
Form	Tris-based buffer, 50% glycerol
Molecular Mass	60.5 kDa
AA Sequence	MRRICKRICDYKSFDDDEESVDGNRPSSAASAFKVPAPKTSGNPANSARKPGSAGG PKVGGASKEGGAGAVDEDDFIKAFTDVPSIQIYSSRELEETLNKIREILSDDKHDWDQ RANALKKIRSLVAGAAQYDCFFQHLRLLDGALKLSAKDLRSQVVREACITVAHLSTV LGNKFDHGAEAIPTLFNLVPNSAKVMATSGCAAIRFIIRHTHVPRLIPLITSNCTSKSV PVRRRSFEFLDLLLQEWQTHSLERHAAVLVETIKKGIHDADAEARVEARKTYMGLRN HFPGEAETLYNSLEPSYQKSLQTYLKSSGSVASLPQSDRSSSSSQESLNRPFSSKW STANPSTVAGRVSAGSSKASSLPQSLQSRSDIDVNAAAGAKAHHAAAGQSVRSGR L GAGALNAGSYASLECEAFWRSGRTAKLYSV
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.
GENE INFORMATION	
Gene Name	CLASP2 cytoplasmic linker associated protein 2 [Homo sapiens]
Official Symbol	CLASP2

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Synonyms	CLASP2; CLIP-associating protein 2; KIAA0627; protein Orbit homolog 2;
Gene ID	23122
mRNA Refseq	NM_001207044
Protein Refseq	NP_001193973
MIM	605853
UniProt ID	O75122



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

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