Datasheet for ABIN7553388

CLASP2 Protein (AA 1-1294) (His tag)

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Overview

Quantity:	1 mg
Target:	CLASP2
Protein Characteristics:	AA 1-1294
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CLASP2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat CLASP2 Protein expressed in mammalien cells.
Sequence:	MAMGDDKSFD DEESVDGNRP SSAASAFKVP APKTSGNPAN SARKPGSAGG PKVGGASKEG GAGAVDEDDF IKAFTDVPSI QIYSSRELEE TLNKIREILS DDKHDWDQRA NALKKIRSLL VAGAAQYDCF FQHLRLLDGA LKLSAKDLRS QVVREACITV AHLSTVLGNK FDHGAEAIVP TLFNLVPNSA KVMATSGCAA IRFIIRHTHV PRLIPLITSN CTSKSVPVRR RSFEFLDLLL QEWQTHSLER HAAVLVETIK KGIHDADAEA RVEARKTYMG LRNHFPGEAE TLYNSLEPSY QKSLQTYLKS SGSVASLPQS DRSSSSSQES LNRPFSSKWS TANPSTVAGR VSAGSSKASS LPGSLQRSRS DIDVNAAAGA KAHHAAGQSV RSGRLGAGAL NAGSYASLED TSDKLDGTAS EDGRVRAKLS APLAGMGNAK ADSRGRSRTK MVSQSQPGSR SGSPGRVLTT TALSTVSSGV QRVLVNSASA QKRSKIPRSQ GCSREASPSR LSVARSSRIP RPSVSQGCSR EASRESSRDT SPVRSFQPLA SRHHSRSTGA LYAPEVYGAS GPGYGISQSS RLSSSVSAMR VLNTGSDVEE AVADALKKPA RRRYESYGMH SDDDANSDAS SACSERSYSS RNGSIPTYMR QTEDVAEVLN

Product Details

	RCASSNWSER KEGLLGLQNL LKNQRTLSRV ELKRLCEIFT RMFADPHGKR VFSMFLETLV DFIQVHKDDL QDWLFVLLTQ LLKKMGADLL GSVQAKVQKA LDVTRESFPN DLQFNILMRF TVDQTQTPSL KVKVAILKYI ETLAKQMDPG DFINSSETRL AVSRVITWTT EPKSSDVRKA AQSVLISLFE LNTPEFTMLL GALPKTFQDG ATKLLHNHLR NTGNGTQSSM GSPLTRPTPR SPANWSSPLT SPTNTSQNTL SPSAFDYDTE NMNSEDIYSS LRGVTEAIQN FSFRSQEDMN EPLKRDSKKD DGDSMCGGPG MSDPRAGGDA TDSSQTALDN KASLLHSMPT HSSPRSRDYN PYNYSDSISP FNKSALKEAM FDDDADQFPD DLSLDHSDLV AELLKELSNH NERVEERKIA LYELMKLTQE ESFSVWDEHF KTILLLLLET LGDKEPTIRA LALKVLREIL RHQPARFKNY AELTVMKTLE AHKDPHKEVV RSAEEAASVL ATSISPEQCI KVLCPIIQTA DYPINLAAIK MQTKVIERVS KETLNLLLPE IMPGLIQGYD NSESSVRKAC VFCLVAVHAV IGDELKPHLS QLTGSKMKLL NLYIKRAQTG SGGADPTTDV SGQS **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	CLASP2

Target Details

Alternative Name:	CLASP2 (CLASP2 Products)
Background:	CLIP-associating protein 2 (Cytoplasmic linker-associated protein 2) (Protein Orbit homolog 2) (hOrbit2),FUNCTION: 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. {ECO:0000269|PubMed:11290329, ECO:0000269|PubMed:15631994, ECO:0000269|PubMed:16824950, ECO:0000269|PubMed:16866869, ECO:0000269|PubMed:16914514, ECO:0000269|PubMed:17543864, ECO:0000269|PubMed:20937854, ECO:0000269|PubMed:26003921}.
Molecular Weight:	141.1 kDa
UniProt:	O75122
Pathways:	Microtubule Dynamics, Maintenance of Protein Location

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C

Handling

Storage Comment:	Store at -80°C.
Expiry Date:	12 months