Datasheet for ABIN3091582

CLASP2 Protein (AA 1-1294) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	CLASP2
Protein Characteristics:	AA 1-1294
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CLASP2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
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

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 Strep-Tag is based on experience s 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 in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system -

Product Details

	all that's needed is the DNA that codes for the desired protein! Concentration: • The concentration of our recombinant proteins is measured using the absorbance at 280nm. • The protein's absorbance will be measured against its specific reference buffer. • We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	CLASP2
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

Target Details

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.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months