Datasheet for ABIN3073632

TAB2 Protein (AA 1-693) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	TAB2
Protein Characteristics:	AA 1-693
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TAB2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MAQGSHQIDF QVLHDLRQKF PEVPEVVVSR CMLQNNNNLD ACCAVLSQES TRYLYGEGDL NFSDDSGISG LRNHMTSLNL DLQSQNIYHH GREGSRMNGS RTLTHSISDG QLQGGQSNSE LFQQEPQTAP AQVPQGFNVF GMSSSSGASN SAPHLGFHLG SKGTSSLSQQ TPRFNPIMVT LAPNIQTGRN TPTSLHIHGV PPPVLNSPQG NSIYIRPYIT TPGGTTRQTQ QHSGWVSQFN PMNPQQVYQP SQPGPWTTCP ASNPLSHTSS QQPNQQGHQT SHVYMPISSP TTSQPPTIHS SGSSQSSAHS QYNIQNISTG PRKNQIEIKL EPPQRNNSSK LRSSGPRTSS TSSSVNSQTL NRNQPTVYIA ASPPNTDELM SRSQPKVYIS ANAATGDEQV MRNQPTLFIS TNSGASAASR NMSGQVSMGP AFIHHHPPKS RAIGNNSATS PRVVVTQPNT KYTFKITVSP NKPPAVSPGV VSPTFELTNL LNHPDHYVET ENIQHLTDPT LAHVDRISET RKLSMGSDDA AYTQALLVHQ KARMERLQRE LEIQKKKLDK LKSEVNEMEN NLTRRRLKRS NSISQIPSLE EMQQLRSCNR QLQIDIDCLT KEIDLFQARG PHFNPSAIHN FYDNIGFVGP VPPKPKDQRS IIKTPKTQDT

	EDDEGAQWNC TACTFLNHPA LIRCEQCEMP RHF **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 - 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®).

Product Details

Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	TAB2
Alternative Name:	TAB2 (TAB2 Products)
Background:	TGF-beta-activated kinase 1 and MAP3K7-binding protein 2 (Mitogen-activated protein kinase kinase kinase 7-interacting protein 2) (TAK1-binding protein 2) (TAB-2) (TGF-beta-activated kinase 1-binding protein 2),FUNCTION: Adapter required to activate the JNK and NF-kappa-B signaling pathways through the specific recognition of 'Lys-63'-linked polyubiquitin chains by its RanBP2-type zinc finger (NZF) (PubMed:10882101, PubMed:11460167, PubMed:15327770, PubMed:22158122, PubMed:33184450, PubMed:36681779). Acts as an adapter linking MAP3K7/TAK1 and TRAF6 to 'Lys-63'-linked polyubiquitin chains (PubMed:10882101, PubMed:11460167, PubMed:15327770, PubMed:22158122). The RanBP2-type zinc finger (NZF) specifically recognizes Lys-63'-linked polyubiquitin chains unanchored or anchored to the substrate proteins such as RIPK1/RIP1 and RIPK2: this acts as a scaffold to organize a large signaling complex to promote autophosphorylation of MAP3K7/TAK1, and subsequent activation of I-kappa-B-kinase (IKK) core complex by MAP3K7/TAK1 (PubMed:15327770, PubMed:18079694, PubMed:22158122). Regulates the IL1-mediated translocation of NCOR1 out of the nucleus (By similarity). Involved in heart development (PubMed:20493459). {ECO:0000250|UniProtKB:Q99K90, ECO:0000269|PubMed:10882101, ECO:0000269|PubMed:11460167, ECO:0000269|PubMed:15327770, ECO:0000269|PubMed:18079694, ECO:0000269|PubMed:20493459, ECO:0000269|PubMed:22158122, ECO:0000269|PubMed:33184450, ECO:0000269|PubMed:36681779}.
Molecular Weight:	76.5 kDa
UniProt:	Q9NYJ8
Pathways:	TCR Signaling, TLR Signaling, Fc-epsilon Receptor Signaling Pathway, Activation of Innate immune Response, Toll-Like Receptors Cascades, Ubiquitin Proteasome Pathway

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

Application Details

	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