Datasheet for ABIN3095835

TAX1BP1 Protein (AA 1-789) (Strep Tag)

1 Image

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Overview

Quantity:	1 mg
Target:	TAX1BP1
Protein Characteristics:	AA 1-789
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TAX1BP1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MTSFQEVPLQ TSNFAHVIFQ NVAKSYLPNA HLECHYTLTP YIHPHPKDWV GIFKVGWSTA RDYYTFLWSP MPEHYVEGST VNCVLAFQGY YLPNDDGEFY QFCYVTHKGE IRGASTPFQF RASSPVEELL TMEDEGNSDM LVVTTKAGLL ELKIEKTMKE KEELLKLIAV LEKETAQLRE QVGRMERELN HEKERCDQLQ AEQKGLTEVT QSLKMENEEF KKRFSDATSK AHQLEEDIVS VTHKAIEKET ELDSLKDKLK KAQHEREQLE CQLKTEKDEK ELYKVHLKNT EIENTKLMSE VQTLKNLDGN KESVITHFKE EIGRLQLCLA EKENLQRTFL LTTSSKEDTC FLKEQLRKAE EQVQATRQEV VFLAKELSDA VNVRDRTMAD LHTARLENEK VKKQLADAVA ELKLNAMKKD QDKTDTLEHE LRREVEDLKL RLQMAADHYK EKFKECQRLQ KQINKLSDQS ANNNNVFTKK TGNQQKVNDA SVNTDPATSA STVDVKPSPS AAEADFDIVT KGQVCEMTKE IADKTEKYNK CKQLLQDEKA KCNKYADELA KMELKWKEQV KIAENVKLEL AEVQDNYKEL KRSLENPAER KMEGQNSQSP QCFKTCSEQN GYVLTLSNAQ PVLQYGNPYA SQETRDGADG AFYPDEIQRP PVRVPSWGLE DNVVCSQPAR NFSRPDGLED SEDSKEDENV PTAPDPPSQH LRGHGTGFCF

DSSFDVHKKC PLCELMFPPN YDQSKFEEHV ESHWKVCPMC SEQFPPDYDQ QVFERHVQTH FDQNVLNFD

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Product Details

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	TAX1BP1
Alternative Name:	TAX1BP1 (TAX1BP1 Products)
Background:	Tax1-binding protein 1 (TRAF6-binding protein),FUNCTION: Ubiquitin-binding adapter that participates in inflammatory, antiviral and innate immune processes as well as selective autophagy regulation (PubMed:30459273, PubMed:29940186, PubMed:30909570). Plays a key role in the negative regulation of NF-kappa-B and IRF3 signalings by acting as an adapter for the ubiquitin-editing enzyme A20/TNFAIP3 to bind and inactivate its substrates (PubMed:17703191). Disrupts the interactions between the E3 ubiquitin ligase TRAF3 and TBK1/IKBKE to attenuate 'Lys63'-linked polyubiquitination of TBK1 and thereby IFN-beta production (PubMed:21885437). Recruits also A20/TNFAIP3 to ubiquitinated signaling proteins TRAF6 and RIPK1, leading to their deubiquitination and disruption of IL-1 and TNF-induced NF-kappa-B signaling pathways (PubMed:17703191). Inhibits virus-induced apoptosis by inducing the 'Lys-48'-linked polyubiquitination and degradation of MAVS via recruitment of the E3 ligase ITCH, thereby attenuating MAVS-mediated apoptosis signaling (PubMed:27736772). As a macroautophagy/autophagy receptor, facilitates the xenophagic clearance of pathogenic bacteria such as Salmonella typhimurium and Mycobacterium tuberculosis (PubMed:26451915). Upon NBR1 recruitment to the SQSTM1-ubiquitin condensates, acts as the major recruiter of RB1CC1 to these ubiquitin condensates to promote their autophagic degradation (PubMed:33226137, PubMed:34471133). Mediates the autophagic degradation of other substrates including TICAM1 (PubMed:28898289). {ECO:0000269|PubMed:10435631, ECO:0000269|PubMed:10920205, ECO:0000269|PubMed:17703191, ECO:0000269|PubMed:21885437, ECO:0000269|PubMed:26451915,

Target Details

	ECO:0000269|PubMed:27736772, ECO:0000269|PubMed:28898289, ECO:0000269|PubMed:29940186, ECO:0000269|PubMed:30459273, ECO:0000269|PubMed:30909570, ECO:0000269|PubMed:33226137, ECO:0000269|PubMed:34471133}.
Molecular Weight:	90.9 kDa
UniProt:	Q86VP1
Pathways:	TLR Signaling

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. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

Handling

Expiry Date:	Unlimited (if stored properly)

Images

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process