Datasheet for ABIN3096017

TNIP1 Protein (AA 1-636) (Strep Tag)

1 Image

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Overview

Quantity:	1 mg
Target:	TNIP1
Protein Characteristics:	AA 1-636
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TNIP1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Sequence:	MEGRGPYRIY DPGGSVPSGE ASAAFERLVK ENSRLKEKMQ GIKMLGELLE ESQMEATRLR QKAEELVKDN ELLPPPSPSL GSFDPLAELT GKDSNVTASP TAPACPSDKP APVQKPPSSG TSSEFEVVTP EEQNSPESSS HANAMALGPL PREDGNLMLH LQRLETTLSV CAEEPDHGQL FTHLGRMALE FNRLASKVHK NEQRTSILQT LCEQLRKENE ALKAKLDKGL EQRDQAAERL REENLELKKL LMSNGNKEGA SGRPGSPKME GTGKKAVAGQ QQASVTAGKV PEVVALGAAE KKVKMLEQQR SELLEVNKQW DQHFRSMKQQ YEQKITELRQ KLADLQKQVT DLEAEREQKQ RDFDRKLLLA KSKIEMEETD KEQLTAEAKE LRQKVKYLQD QLSPLTRQRE YQEKEIQRLN KALEEALSIQ TPPSSPPTAF GSPEGAGALL RKQELVTQNE LLKQQVKIFE EDFQRERSDR ERMNEEKEEL KKQVEKLQAQ VTLSNAQLKA FKDEEKAREA LRQQKRKAKA SGERYHVEPH PEHLCGAYPY AYPPMPAMVP HHGFEDWSQI RYPPPPMAME HPPPLPNSRL FHLPEYTWRL PCGGVRNPNQ SSQVMDPPTA RPTEPESPKN DREGPQ **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.
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

Product Details

	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:	TNIP1
Alternative Name:	TNIP1 (TNIP1 Products)
Background:	TNFAIP3-interacting protein 1 (A20-binding inhibitor of NF-kappa-B activation 1) (ABIN-1) (HIV-1 Nef-interacting protein) (Nef-associated factor 1) (Naf1) (Nip40-1) (Virion-associated nuclear shuttling protein) (VAN) (hVAN),FUNCTION: Inhibits NF-kappa-B activation and TNF-induced NF-kappa-B-dependent gene expression by regulating TAX1BP1 and A20/TNFAIP3-mediated deubiquitination of IKBKG, proposed to link A20/TNFAIP3 to ubiquitinated IKBKG (PubMed:21885437). Involved in regulation of EGF-induced ERK1/ERK2 signaling pathway, blocks MAPK3/MAPK1 nuclear translocation and MAPK1-dependent transcription. Increases cell surface CD4(T4) antigen expression. Involved in the anti-inflammatory response of macrophages and positively regulates TLR-induced activation of CEBPB. Involved in the prevention of autoimmunity, this function implicates binding to polyubiquitin. Involved in leukocyte integrin activation during inflammation, this function is mediated by association with SELPLG and dependent on phosphorylation by SRC-family kinases. Interacts with HIV-1 matrix protein and is packaged into virions and overexpression can inhibit viral replication. May regulate matrix nuclear localization, both nuclear import of PIC (Preintegration complex) and export of GAG polyprotein and viral genomic RNA during virion production. In case of infection, promotes association of IKBKG with Shigella flexneri E3 ubiquitin-protein ligase ipah9.8 p which in turn promotes polyubiquitination of IKBKG leading to its proteasome-dependent degradation and thus is perturbing NF-kappa-B activation during bacterial infection. {ECO:0000269|PubMed:12220502, ECO:0000269|PubMed:16684768, ECO:0000269|PubMed:17016622, ECO:0000269|PubMed:17632516, ECO:0000269|PubMed:20010814, ECO:0000269|PubMed:21885437}.
Molecular Weight:	71.9 kDa

Target Details

UniProt:	Q15025
Pathways:	Activation of Innate immune Response

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.
Expiry Date:	Unlimited (if stored properly)

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

