Datasheet for ABIN3090038

BAP1 Protein (AA 1-729) (Strep Tag)

1 Image

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Overview

Quantity:	1 mg
Target:	BAP1
Protein Characteristics:	AA 1-729
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This BAP1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MNKGWLELES DPGLFTLLVE DFGVKGVQVE EIYDLQSKCQ GPVYGFIFLF KWIEERRSRR KVSTLVDDTS VIDDDIVNNM FFAHQLIPNS CATHALLSVL LNCSSVDLGP TLSRMKDFTK GFSPESKGYA IGNAPELAKA HNSHARPEPR HLPEKQNGLS AVRTMEAFHF VSYVPITGRL FELDGLKVYP IDHGPWGEDE EWTDKARRVI MERIGLATAG EPYHDIRFNL MAVVPDRRIK YEARLHVLKV NRQTVLEALQ QLIRVTQPEL IQTHKSQESQ LPEESKSASN KSPLVLEANR APAASEGNHT DGAEEAAGSC AQAPSHSPPN KPKLVVKPPG SSLNGVHPNP TPIVQRLPAF LDNHNYAKSP MQEEEDLAAG VGRSRVPVRP PQQYSDDEDD YEDDEEDDVQ NTNSALRYKG KGTGKPGALS GSADGQLSVL QPNTINVLAE KLKESQKDLS IPLSIKTSSG AGSPAVAVPT HSQPSPTPSN ESTDTASEIG SAFNSPLRSP IRSANPTRPS SPVTSHISKV LFGEDDSLLR VDCIRYNRAV RDLGPVISTG LLHLAEDGVL SPLALTEGGK GSSPSIRPIQ GSQGSSSPVE KEVVEATDSR EKTGMVRPGE PLSGEKYSPK ELLALLKCVE AEIANYEACL KEEVEKRKKF KIDDQRRTHN YDEFICTFIS MLAQEGMLAN LVEQNISVRR RQGVSIGRLH KQRKPDRRKR

Product Details

	SRPYKAKRQ **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

Product Details

	(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:	BAP1
Alternative Name:	BAP1 (BAP1 Products)
Background:	Ubiquitin carboxyl-terminal hydrolase BAP1 (EC 3.4.19.12) (BRCA1-associated protein 1) (Cerebral protein 6),FUNCTION: Deubiquitinating enzyme that plays a key role in chromatin by mediating deubiquitination of histone H2A and HCFC1 (PubMed:12485996, PubMed:18757409, PubMed:20436459, PubMed:25451922, PubMed:35051358). Catalytic component of the PR-DUB complex, a complex that specifically mediates deubiquitination of histone H2A monoubiquitinated at 'Lys-119' (H2AK119ub1) (PubMed:20436459, PubMed:25451922, PubMed:35051358). Does not deubiquitinate monoubiquitinated histone H2B (PubMed:20436459). Acts as a regulator of cell growth by mediating deubiquitination of HCFC1 N-terminal and C-terminal chains, with some specificity toward 'Lys-48'-linked polyubiquitin chains compared to 'Lys-63'-linked polyubiquitin chains (PubMed:19188440, PubMed:19815555). Deubiquitination of HCFC1 does not lead to increase stability of HCFC1 (PubMed:19188440, PubMed:19815555). Interferes with the BRCA1 and BARD1 heterodimer activity by inhibiting their ability to mediate ubiquitination and autoubiquitination (PubMed:19117993). It however does not mediate deubiquitination of BRCA1 and BARD1 (PubMed:19117993). Able to mediate autodeubiquitination via intramolecular interactions to couteract monoubiquitination at the nuclear localization signal (NLS), thereby protecting it from cytoplasmic sequestration (PubMed:24703950). Acts as a tumor suppressor (PubMed:9528852). {ECO:0000269|PubMed:12485996, ECO:0000269|PubMed:18757409, ECO:0000269|PubMed:19117993, ECO:0000269|PubMed:19188440, ECO:0000269|PubMed:19815555, ECO:0000269|PubMed:20436459, ECO:0000269|PubMed:24703950, ECO:0000269|PubMed:25451922,

Target Details

	ECO:0000269|PubMed:35051358, ECO:0000269|PubMed:9528852}.
Molecular Weight:	80.4 kDa
UniProt:	Q92560

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