Datasheet for ABIN7552723

BAP1 Protein (AA 1-729) (His tag)

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Overview

Quantity:	1 mg
Target:	BAP1
Protein Characteristics:	AA 1-729
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BAP1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant BAP1 Protein expressed in mammalian cells.
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 Purification-Tag is based on experiences 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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

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

Target Details

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

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months