Datasheet for ABIN3137339

AP3B2 Protein (AA 1-1082) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	AP3B2
Protein Characteristics:	AA 1-1082
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AP3B2 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MSAAPAYSED KGGSAGPGEP EYGHDPASGG IFSSDYKRHD DLKEMLDTNK DSLKLEAMKR IVAMIARGKN ASDLFPAVVK NVACKNIEVK KLVYVYLVRY AEEQQDLALL SISTFQRGLK DPNQLIRASA LRVLSSIRVP IIVPIMMLAI KEAASDMSPY VRKTAAHAIP KLYSLDSDQK DQLIEVIEKL LADKTTLVAG SVVMAFEEVC PERIDLIHKN YRKLCNLLID VEEWGQVVII SMLTRYARTQ FLSPTQNESL LEENPEKAFY GSEEDEAKGP GSEEAATAAL PARKPYVMDP DHRLLLRNTK PLLQSRSAAV VMAVAQLYFH LAPKAEVGVI AKALVRLLRS HSEVQYVVLQ NVATMSIKRR GMFEPYLKSF YIRSTDPTQI KILKLEVLTN LANETNIPTV LREFQTYIRS MDKDFVAATI QAIGRCATNI GRVRDTCLNG LVQLLSNRDE LVVAESVVVI KKLLQMQPAQ HGEIIKHLAK LTDNIQVPMA RASILWLIGE YCEHVPKIAP DVLRKMAKSF TAEEDIVKLQ VINLAAKLYL TNSKQTKLLT QYVLSLAKYD QNYDIRDRAR FTRQLIVPSE QGGALSRHAK KLFLAPKPAP ILESSFKDRD HFQLGSLSHL LNAKATGYQE LPDWPEEAPD PSVRNVEVPE WTKCSNREKR KEKEKPFYSD SEGESGPTES ADSEPESESE SESKSSSGSG SGESSSESDN

	EEEDEEKGGG SESEQSEEED EKKKKTKKKK ASEGHREGSS SEEGSDSSSS SESEVTSESE EEQVEPASWR KKTPPGSKSA PVAKEISLLD LEDFTPPSVQ PVSPPMVVST SLAADLEGLT LTDSSLVPSL LSPVSSIGRQ ELLHRVAGEG LSVDYAFSRQ PFSGDPHMVS LHIYFSNNSE TPIKGLHVGT PKLPAGISIQ EFPEIESLAP GESTTTVMGI NFCDSTQAAN FQLCTQTRQF YVSIQPPVGE LMAPVFMSEN EFKKEQGKLT GMNEITEKLT LPDTCRSDHM VVQKVTATAN LGRVPCGTSD EYRFAGRTLT SGSLVLLTLD ARAAGAAQLT VNSEKMVIGT MLVKDVIQAL TQ **Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**
Characteristics:	• Made in Germany - from design to production - by highly experienced protein experts. • Mouse Ap3b2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. • 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. In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization). When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. 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. The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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.

Product Details

Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	AP3B2
Alternative Name:	Ap3b2 (AP3B2 Products)
Background:	Subunit of non-clathrin- and clathrin-associated adaptor protein complex 3 (AP-3) that plays a role in protein sorting in the late-Golgi/trans-Golgi network (TGN) and/or endosomes. The AP complexes mediate both the recruitment of clathrin to membranes and the recognition of sorting signals within the cytosolic tails of transmembrane cargo molecules. AP-3 appears to be involved in the sorting of a subset of transmembrane proteins targeted to lysosomes and lysosome-related organelles. In concert with the BLOC-1 complex, AP-3 is required to target cargos into vesicles assembled at cell bodies for delivery into neurites and nerve terminals. {ECO:0000269|PubMed:21998198}.
Molecular Weight:	120.1 kDa Including tag.
UniProt:	Q9JME5

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 gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid

Handling

Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

Images

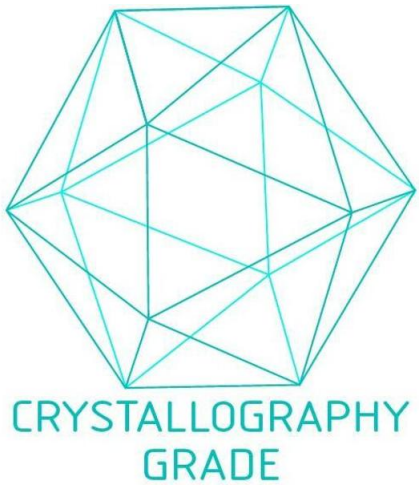

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process