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Datasheet for ABIN3089217 AP2B1 Protein (AA 2-937) (His tag)

Image



Overview

Quantity:	1 mg
Target:	AP2B1
Protein Characteristics:	AA 2-937
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AP2B1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	TDSKYFTTNK KGEIFELKAE LNNEKKEKRK EAVKKVIAAM TVGKDVSSLF PDVVNCMQTD
	NLELKKLVYL YLMNYAKSQP DMAIMAVNSF VKDCEDPNPL IRALAVRTMG CIRVDKITEY
	LCEPLRKCLK DEDPYVRKTA AVCVAKLHDI NAQMVEDQGF LDSLRDLIAD SNPMVVANAV
	AALSEISESH PNSNLLDLNP QNINKLLTAL NECTEWGQIF ILDCLSNYNP KDDREAQSIC
	ERVTPRLSHA NSAVVLSAVK VLMKFLELLP KDSDYYNMLL KKLAPPLVTL LSGEPEVQYV
	ALRNINLIVQ KRPEILKQEI KVFFVKYNDP IYVKLEKLDI MIRLASQANI AQVLAELKEY
	ATEVDVDFVR KAVRAIGRCA IKVEQSAERC VSTLLDLIQT KVNYVVQEAI VVIRDIFRKY
	PNKYESIIAT LCENLDSLDE PDARAAMIWI VGEYAERIDN ADELLESFLE GFHDESTQVQ
	LTLLTAIVKL FLKKPSETQE LVQQVLSLAT QDSDNPDLRD RGYIYWRLLS TDPVTAKEVV
	LSEKPLISEE TDLIEPTLLD ELICHIGSLA SVYHKPPNAF VEGSHGIHRK HLPIHHGSTD
	AGDSPVGTTT ATNLEQPQVI PSQGDLLGDL LNLDLGPPVN VPQVSSMQMG AVDLLGGGLD
	SLVGQSFIPS SVPATFAPSP TPAVVSSGLN DLFELSTGIG MAPGGYVAPK AVWLPAVKAK

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	GLEISGTFTH RQGHIYMEMN FTNKALQHMT DFAIQFNKNS FGVIPSTPLA IHTPLMPNQS
	IDVSLPLNTL GPVMKMEPLN NLQVAVKNNI DVFYFSCLIP LNVLFVEDGK MERQVFLATW
	KDIPNENELQ FQIKECHLNA DTVSSKLQNN NVYTIAKRNV EGQDMLYQSL KLTNGIWILA
	ELRIQPGNPN YTLSLKCRAP EVSQYIYQVY DSILKN
	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. Human AP2B1 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:
	 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.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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Product Details	
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	AP2B1
Alternative Name:	AP2B1 (AP2B1 Products)
Background:	Component of the adaptor protein complex 2 (AP-2). Adaptor protein complexes function in
	protein transport via transport vesicles in different membrane traffic pathways. Adaptor proteir
	complexes are vesicle coat components and appear to be involved in cargo selection and
	vesicle formation. AP-2 is involved in clathrin-dependent endocytosis in which cargo proteins
	are incorporated into vesicles surrounded by clathrin (clathrin-coated vesicles, CCVs) which are
	destined for fusion with the early endosome. The clathrin lattice serves as a mechanical
	scaffold but is itself unable to bind directly to membrane components. Clathrin-associated
	adaptor protein (AP) complexes which can bind directly to both the clathrin lattice and to the
	lipid and protein components of membranes are considered to be the major clathrin adaptors
	contributing the CCV formation. AP-2 also serves as a cargo receptor to selectively sort the
	membrane proteins involved in receptor-mediated endocytosis. AP-2 seems to play a role in the
	recycling of synaptic vesicle membranes from the presynaptic surface. AP-2 recognizes Y-X-X-
	[FILMV] (Y-X-X-Phi) and [ED]-X-X-X-L-[LI] endocytosis signal motifs within the cytosolic tails of
	transmembrane cargo molecules. AP-2 may also play a role in maintaining normal post-
	endocytic trafficking through the ARF6-regulated, non-clathrin pathway. The AP-2 beta subunit
	acts via its C-terminal appendage domain as a scaffolding platform for endocytic accessory
	proteins, at least some clathrin-associated sorting proteins (CLASPs) are recognized by their
	[DE]-X(1,2)-F-X-X-[FL]-X-X-X-R motif. The AP-2 beta subunit binds to clathrin heavy chain,
	promoting clathrin lattice assembly, clathrin displaces at least some CLASPs from AP2B1
	which probably then can be positioned for further coat assembly.
	{ECO:0000269 PubMed:14745134, ECO:0000269 PubMed:14985334,
	ECO:0000269 PubMed:15473838, ECO:0000269 PubMed:19033387}.
Molecular Weight:	105.4 kDa Including tag.
UniProt:	P63010
Pathways:	EGFR Signaling Pathway, Neurotrophin Signaling Pathway, EGFR Downregulation

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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:	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

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

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