antibodies

Datasheet for ABIN1046568 AP2S1 Protein (AA 1-142, full length) (GST tag)

1	Image
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2 Publications



Overview

Background:

Quantity:	50 µg
Target:	AP2S1
Protein Characteristics:	AA 1-142, full length
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This AP2S1 protein is labelled with GST tag.
Application:	ELISA
Product Details	
Sequence:	MIRFILIQNRAGKTRLAKWYMQFDDDEKQKLIEEVHAVVT
	VRDAKHTNFVEFRNFKIIYRRYAGLYFCICVDVNDNNLAY
	LEAIHNFVEVLNEYFHNVCELDLVFNFYKVYTVVDEMFLA GEIRETSQTKVLKQLLMLQSLE
Characteristics:	Please inquire if you are interested in this recombinant protein expressed in E. coli, mammalien
	cells or by baculovirus infection. Be aware about differences in price and lead time.
Purity:	90 %
Target Details	
Target Details	
Target:	AP2S1
Alternative Name:	AP-2 complex subunit sigma protein (AP2S1 Products)

Component of the adaptor protein complex 2 (AP-2). Adaptor protein complexes function in

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN1046568 | 09/12/2023 | Copyright antibodies-online. All rights reserved. protein Transport via Transport vesicles in different membrane traffic pathways. Adaptor protein 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 surrrounded 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. Clathrinassociated 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 alpha and AP-2 sigma subunits are thought to contribute to the recognition of the [ED]-X-X-X-L-[LI] motif.

Molecular Weight:	44.4 kD
UniProt:	P53680
Pathways:	EGFR Signaling Pathway, Neurotrophin Signaling Pathway, EGFR Downregulation

Application Details

Comment:	The yeast protein expression system is the most economical and efficient eukaryotic system
	for secretion and intracellular expression. A protein expressed by the mammalian cell system is
	of very high-quality and close to the natural protein. But the low expression level, the high cost
	of medium and the culture conditions restrict the promotion of mammalian cell expression
	systems. The yeast protein expression system serve as a eukaryotic system integrate the
	advantages of the mammalian cell expression system. A protein expressed by yeast system
	could be modificated such as glycosylation, acylation, phosphorylation and so on to ensure the
	native protein conformation. It can be used to produce protein material with high added value
	that is very close to the natural protein. Our proteins produced by yeast expression system has
	been used as raw materials for downstream preparation of monoclonal antibodies.

Restrictions:

For Research Use only

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Handling

Format:	Lyophilized
Concentration:	0.2-2 mg/mL
Buffer:	Tris-based buffer, 50 % glycerol
Handling Advice:	Repeated freezing and thawing is not recommended. Store working aliquots at 4 °C for up to one week
Storage:	-20 °C
Storage Comment:	Store at -20 °C for extended storage, conserve at -20 °C or -80 °C
Publications	
Product cited in:	Burkard, Planyavsky, Kaupe, Breitwieser, Bürckstümmer, Bennett, Superti-Furga, Colinge: "Initial characterization of the human central proteome." in: BMC systems biology , Vol. 5, pp. 17, (2011) (PubMed).
	Durand, Angeletti, Genti-Raimondi: "GTT1/StarD7, a novel phosphatidylcholine transfer protein- like highly expressed in gestational trophoblastic tumour: cloning and characterization." in: Placenta , Vol. 25, Issue 1, pp. 37-44, (2004) (PubMed).
	Gerhard, Wagner, Feingold, Shenmen, Grouse, Schuler, Klein, Old, Rasooly, Good, Guyer, Peck, Derge, Lipman, Collins, Jang, Sherry, Feolo, Misquitta, Lee, Rotmistrovsky, Greenhut, Schaefer, Buetow et al.: "The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC)" in: Genome research , Vol. 14, Issue 10B, pp. 2121-7, (2004) (PubMed).



SDS-PAGE

Image 1. Adaptor-Related Protein Complex 2, sigma 1 Subunit (AP2S1) (AA 1-142), (full length) protein (GST tag)

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