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## AP2M1 Protein (AA 1-435, full length) (His-SUMO Tag)



Image



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#### Overview

Quantity:	100 μg
Target:	AP2M1
Protein Characteristics:	full length, AA 1-435
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This AP2M1 protein is labelled with His-SUMO Tag.
Application:	SDS-PAGE (SDS)

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Product Details	
Sequence:	MIGGLFIYNH KGEVLISRVY RDDIGRNAVD AFRVNVIHAR QQVRSPVTNI ARTSFFHVKR
	SNIWLAAVTK QNVNAAMVFE FLYKMCDVMA AYFGKISEEN IKNNFVLIYE LLDEILDFGY
	PQNSETGALK TFITQQGIKS QHQTKEEQSQ ITSQVTGQIG WRREGIKYRR NELFLDVLES
	VNLLMSPQGQ VLSAHVSGRV VMKSYLSGMP ECKFGMNDKI VIEKQGKGTA DETSKSGKQS
	IAIDDCTFHQ CVRLSKFDSE RSISFIPPDG EFELMRYRTT KDIILPFRVI PLVREVGRTK
	LEVKVVIKSN FKPSLLAQKI EVRIPTPLNT SGVQVICMKG KAKYKASENA IVWKIKRMAG
	MKESQISAEI ELLPTNDKKK WARPPISMNF EVPFAPSGLK VRYLKVFEPK LNYSDHDVIK
	WVRYIGRSGI YETRC
Purification:	SDS-PAGE
Purity:	> 90 %

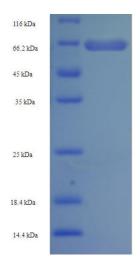
#### **Target Details**

Target Details	
Target:	AP2M1
Alternative Name:	AP2M1 (AP2M1 Products)
Background:	Component of the adaptor protein complex 2 (AP-2). Adaptor protein complexes function in
	protein transport via transport vesicles in different mbrane 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 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 mbrane components. Clathrin-associated adaptor
	protein (AP) complexes which can bind directly to both the clathrin lattice and to the lipid and
	protein components of mbranes are considered to be the major clathrin adaptors contributing
	the CCV formation. AP-2 also serves as a cargo receptor to selectively sort the mbrane proteins
	involved in receptor-mediated endocytosis. AP-2 ses to play a role in the recycling of synaptic
	vesicle mbranes 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 transmbrane 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 mu subunit binds to transmbrane cargo
	proteins, it recognizes the Y-X-X-Phi motifs. The surface region interacting with to the Y-X-X-Phi
	motif is inaccessible in cytosolic AP-2, but becomes accessible through a conformational
	change following phosphorylation of AP-2 mu subunit at 'Tyr-156' in mbrane-associated AP-2.
	The mbrane-specific phosphorylation event appears to involve assbled clathrin which activates
	the AP-2 mu kinase AAK1 . Plays a role in endocytosis of frizzled family mbers upon Wnt
	signaling.
Molecular Weight:	65.6 kDa
UniProt:	Q96CW1
Pathways:	EGFR Signaling Pathway, Neurotrophin Signaling Pathway, EGFR Downregulation, SARS-CoV-2
	Protein Interactome
Application Details	
Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

### Handling

Format:	Liquid
Concentration:	0.1-2 mg/mL
Buffer:	20 mM Tris-HCl based buffer, pH 8.0
Storage:	-80 °C,4 °C,-20 °C
Storage Comment:	Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

#### **Images**



#### SDS-PAGE

Image 1.