Datasheet for ABIN7144372

anti-AP2M1 antibody (AA 136-435)

2 Images

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Overview

Quantity:	100 µL
Target:	AP2M1
Binding Specificity:	AA 136-435
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AP2M1 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant Human AP-2 complex subunit mu protein (136-435AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Antigen Affinity Purified

Target Details

Target:	AP2M1
Alternative Name:	AP2M1 (AP2M1 Products)
Background:	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.

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	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 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 mu subunit binds to transmembrane 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 membrane-associated AP-2. The membrane-specific phosphorylation event appears to involve assembled clathrin which activates the AP-2 mu kinase AAK1 (By similarity). Plays a role in endocytosis of frizzled family members upon Wnt signaling Aliases: Adapter-related protein complex 2 mu subunit antibody, Adaptin mu 1 antibody, Adaptin-mu2 antibody, Adaptor protein complex AP 2 subunit mu antibody, Adaptor protein complex AP-2 subunit mu antibody, Adaptor related protein complex 2 mu 1 subunit antibody, AP 2 mu 2 chain antibody, AP-2 complex subunit mu antibody, AP-2 mu chain antibody, Ap2m1 antibody, AP2M1_HUMAN antibody, AP50 antibody, CLAPM1 antibody, Clathrin adaptor complex AP2 mu subunit antibody, Clathrin assembly protein complex 2 medium chain antibody, Clathrin associated/assembly/adaptor protein medium 1 antibody, Clathrin coat adaptor protein AP50 antibody, Clathrin coat assembly protein AP50 antibody, Clathrin coat associated protein AP50 antibody, Clathrin coat-associated protein AP50 antibody, HA2 50 kDa subunit antibody, mu2 antibody, Plasma membrane adaptor AP-2 50 kDa protein antibody
UniProt:	Q96CW1
Pathways:	EGFR Signaling Pathway, Neurotrophin Signaling Pathway, EGFR Downregulation, SARS-CoV-2 Protein Interactome

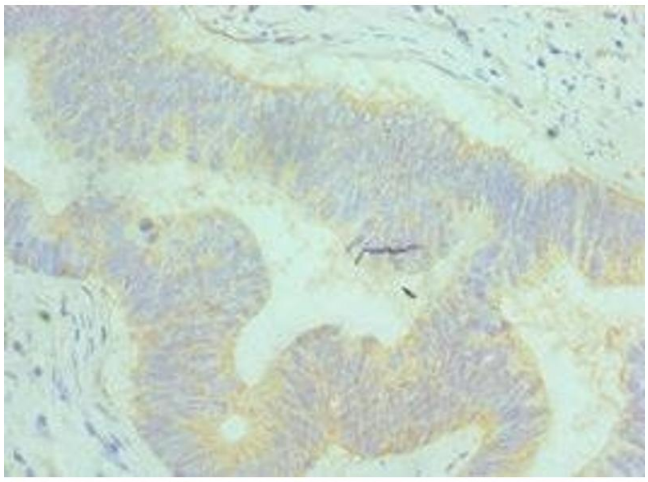
Application Details

Application Notes:	Recommended dilution: IHC:1:20-1:200,
Restrictions:	For Research Use only

Handling

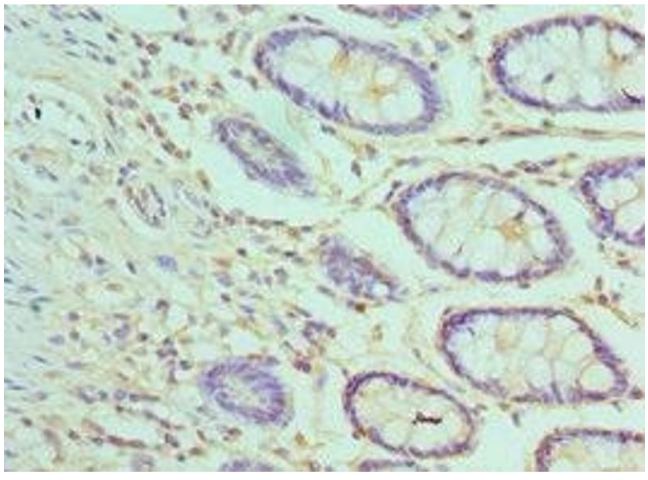
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human colon cancer using ABIN7144372 at dilution of 1:100



Immunohistochemistry

Image 2. Immunohistochemistry of paraffin-embedded human colon tissue using ABIN7144372 at dilution of 1:100