

AP2A1 Rabbit pAb

CatalogNo: YN7720

Key Features

Host Species • Rabbit MW

107kD (Calculated)

ReactivityHuman,MouseIsotype

IgG

Applications
• WB

Recommended Dilution Ratios

WB 1:500-2000

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from human AP2A1
Specificity	This antibody detects endogenous levels of AP2A1 at Human, Mouse

Target Information

Gene name AP2A1 ADTAA CLAPA1

Protein NameAP-2 complex subunit alpha-1 (100 kDa coated vesicle protein A) (Adapter-related protein
complex 2 alpha-1 subunit) (Adaptor protein complex AP-2 subunit alpha-1) (Alpha-adaptin
A) (Alpha1-adaptin) (Clathrin assembly protein complex 2 alpha-A large chain) (Plasma
membrane adaptor HA2/AP2 adaptin alpha A subunit)

	Organism	Gene ID	UniProt ID
	Human	<u>160;</u>	<u>095782;</u>
	Mouse	<u>11771;</u>	<u>P17426;</u>
Cellular Localization	Cell membrane . Membrane, coated pit ; Peripheral membrane protein ; Cytoplasmic side . AP-2 appears to be excluded from internalizing CCVs and to disengage from sites of endocytosis seconds before internalization of the nascent CCV		
Tissue specificity	Expressed in the brain (at protein forebrain, skeletal muscle, spinal B: Widely expressed in tissues an	cord, cerebellum, saliv	vary gland, heart and colon. Isoform
Function	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 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 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. During long-term potentiation in hippocampal neurons, AP-2 is responsible for the endocytosis of ADAM10 . The AP-2 alpha subunit binds polyphosphoinositide-containing lipids, positioning AP-2 on the membrane. The AP-2 alpha subunit acts via its C-terminal appendage domain as a scaffolding platform for endocytic accessory proteins. 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 (By similarity).		

Validation Data

Contact information

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Please scan the QR code to access additional product information: **AP2A1 Rabbit pAb** For Research Use Only. Not for Use in Diagnostic Procedures.

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