Datasheet for ABIN7144361

anti-alpha Adaptin antibody (AA 1-260)

2 Images

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Overview

Quantity:	100 µL
Target:	alpha Adaptin (AP2A1)
Binding Specificity:	AA 1-260
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This alpha Adaptin antibody is un-conjugated
Application:	Immunohistochemistry (IHC), ELISA

Product Details

Immunogen:	Recombinant Human AP-2 complex subunit alpha-1 protein (1-260AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Antigen Affinity Purified

Target Details

Target:	alpha Adaptin (AP2A1)
Alternative Name:	AP2A1 (AP2A1 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.

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 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).

Aliases: 100 kDa coated vesicle protein A antibody, Adapter-related protein complex 2 alpha-1 subunit antibody, adapter-related protein complex 2 subunit alpha-1 antibody, Adaptin alpha A antibody, Adaptin alpha antibody, Adaptor protein complex AP 2 alpha 1 subunit antibody, adaptor protein complex AP 2 subunit alpha 1 antibody, Adaptor protein complex AP-2 subunit alpha-1 antibody, Adaptor protein complex AP2 alpha 1 subunit antibody, adaptor protein complex AP2 subunit alpha 1 antibody, Adaptor related protein complex 2 alpha 1 subunit antibody, Adaptor related protein complex AP 2 alpha 1 subunit antibody, Adaptor related protein complex AP2 alpha 1 subunit antibody, ADTAA antibody, Alpha A adaptin antibody, Alpha adaptin A antibody, Alpha-adaptin A antibody, alpha1 adaptin antibody, Alpha1-adaptin antibody, AP 2 alpha antibody, AP 2 complex subunit alpha 1 antibody, AP-2 complex subunit alpha-1 antibody, AP2 complex subunit alpha 1 antibody, AP2-ALPHA antibody, Ap2a1 antibody, AP2A1_HUMAN antibody, CLAPA 1 antibody, CLAPA1 antibody, Clathrin adaptor complex AP2. alpha subunit antibody, Clathrin assembly protein complex 2 alpha A large chain antibody, Clathrin assembly protein complex 2 alpha-A large chain antibody, Clathrin associated / assembly / adaptor protein large alpha 1 antibody, clathrin associated assembly adaptor protein large alpha 1 antibody, clathrin associated/assembly/adaptor protein, large, alpha 1 antibody, Plasma membrane adaptor HA 2/AP 2 adaptin alpha A subunit antibody, Plasma membrane adaptor HA2/AP2 adaptin alpha A subunit antibody

Target Details

UniProt:	O95782
Pathways:	Notch Signaling, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, EGFR Downregulation

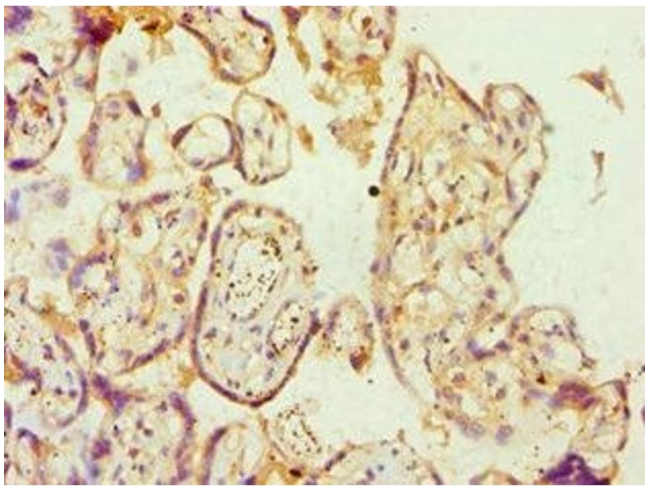
Application Details

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

Handling

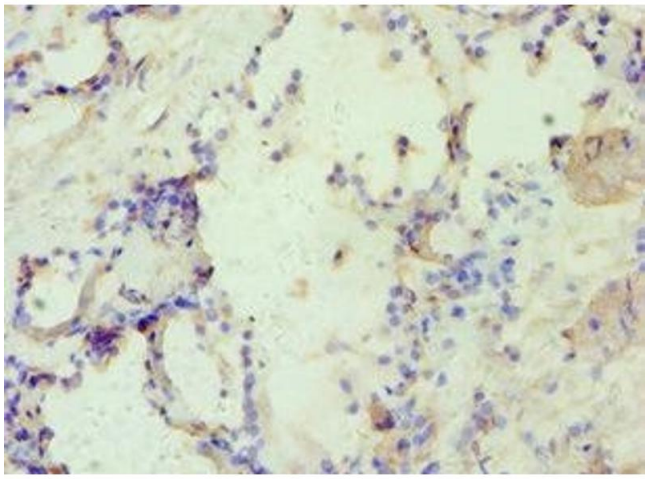
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store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

Images



Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human placenta tissue using ABIN7144361 at dilution of 1:100



Immunohistochemistry

Image 2. Immunohistochemistry of paraffin-embedded human prostate tissue using ABIN7144361 at dilution of 1:100

