Datasheet for ABIN7144363

anti-AP2B1 antibody (AA 738-937)

3 Images

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Overview

Quantity:	100 µL
Target:	AP2B1
Binding Specificity:	AA 738-937
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AP2B1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant Human AP-2 complex subunit beta protein (738-937AA)
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	Antigen Affinity Purified

Target Details

Target:	AP2B1
Alternative Name:	AP2B1 (AP2B1 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.

Target Details

	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 beta subunit acts via its C-terminal appendage domain as a scaffolding platform for endocytic accessory proteins, at least some clathrin-associated sorting proteins (CLASPs) are recognized by their [DE]-X(1,2)-F-X-X-[FL]-X-X-X-R motif. The AP-2 beta subunit binds to clathrin heavy chain, promoting clathrin lattice assembly, clathrin displaces at least some CLASPs from AP2B1 which probably then can be positioned for further coat assembly. Aliases: Adapter related protein complex 2 beta 1 subunit antibody, Adapter-related protein complex 2 beta subunit antibody, Adaptin, beta 2 (beta) antibody, Adaptor protein complex AP-2 subunit beta antibody, Adaptor related protein complex 2, beta 1 subunit antibody, ADTB2 antibody, AP-2 complex subunit beta antibody, AP105B antibody, AP2 BETA antibody, Ap2b1 antibody, AP2B1_HUMAN antibody, Beta adaptin antibody, Beta-2-adaptin antibody, Beta-adaptin antibody, Beta2 adaptin antibody, CLAPB1 antibody, Clathrin assembly protein complex 2 beta large chain antibody, Clathrin associated/assembly/adaptor protein, large, beta 1 antibody, DKFZp781K0743 antibody, Plasma membrane adaptor HA2/AP2 adaptin beta subunit antibody
UniProt:	P63010
Pathways:	EGFR Signaling Pathway, Neurotrophin Signaling Pathway, EGFR Downregulation

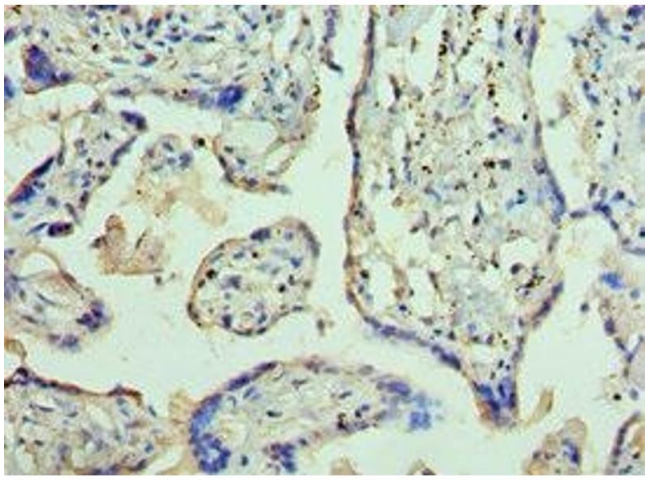
Application Details

Application Notes:	Recommended dilution: WB:1:200-1:1000, IHC:1:20-1:200,
Restrictions:	For Research Use only

Handling

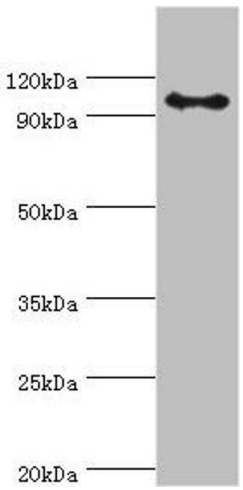
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store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

Images



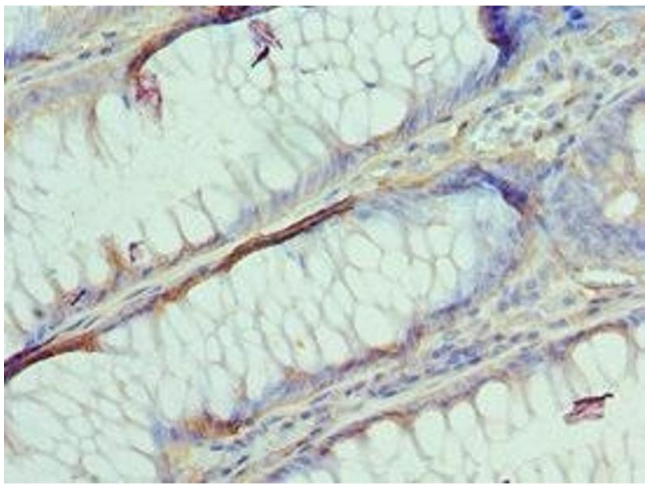
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human placenta tissue using ABIN7144363 at dilution of 1:100



Western Blotting

Image 2. Western blot All lanes: AP-2 complex subunit beta antibody at 8 µg/mL + Mouse brain tissue Secondary Goat polyclonal to rabbit IgG at 1/10000 dilution Predicted band size: 105, 106, 99 kDa Observed band size: 105 kDa



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded human colon cancer using ABIN7144363 at dilution of 1:100

