

Rabbit AP2B1 Polyclonal Antibody | anti-AP2B1 antibody

AP2B1 Antibody

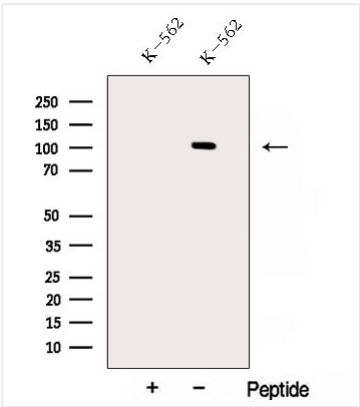
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328768	Rabbit	Human, Mouse, RatPredicted: Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus	Western Blot

PRODUCT SYNONYMS

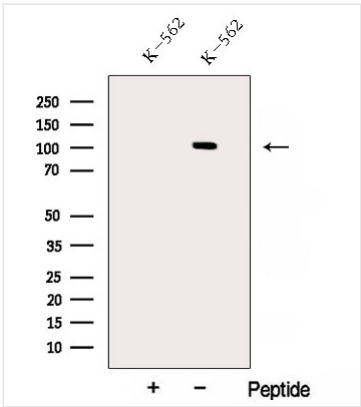
AP2B1; Polyclonal Antibody; AP2B1 Antibody; Adapter related protein complex 2 beta 1 subunit; Adapter-related protein complex 2 beta subunit; Adaptin; beta 2 (beta); Adaptor protein complex AP-2 subunit beta; Adaptor related protein complex 2; beta 1 subunit; ADTB2; AP-2 complex subunit beta; AP105B; AP2 BETA; Ap2b1; AP2B1_HUMAN; Beta adaptin; Beta-2-adaptin; Beta-adaptin; Beta2 adaptin; CLAPB1; Clathrin assembly protein complex 2 beta large chain; Clathrin associated/assembly/adaptor protein; large; beta 1; DKFZp781K0743; Plasma membrane adaptor HA2/AP2 adaptin beta subunit; anti-AP2B1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted: Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Clonality	Polyclonal
Isotype	IgG
Specificity	AP2B1 Antibody detects endogenous levels of AP2B1.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid; Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	937
Applicable Applications for anti-AP2B1 antibody	WB (Western Blot)
Immunogen	A synthesized peptide derived from human AP2B1.
Fragment	Fab Fragment
Conjugate	Unconjugated
Subcellular Location	Plasma Membrane
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of extracts from K-562 cells, using AP2B1 Antibody. The lane on the left was treated with blocking peptide.



WB (Western Blot)
Western blot analysis of extracts from Rat brain, using AP2B1 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-AP2B1 antibody	Description: 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 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. Post Translational Modifications: Phosphorylation at Tyr-737 by SRC occurs at the plasma membrane in clathrin-coated vesicles (CCVs). Subunit Structure: Adaptor protein complex 2 (AP-2) is a heterotetramer composed of two large adaptins (alpha-type subunit AP2A1 or AP2A2 and beta-type subunit AP2B1), a medium adaptin (mu-type subunit AP2M1) and a small adaptin (sigma-type subunit AP2S1) (PubMed:12086608, PubMed:19140243). Interacts with EPN1 (PubMed:10944104, PubMed:16516836). Interacts with EPS15; clathrin competes with EPS15 (PubMed:10944104, PubMed:16903783). Interacts with SNAP91; clathrin competes with SNAP91 (PubMed:10944104, PubMed:16516836, PubMed:16903783). Interacts with CLTC; clathrin competes with EPS15, SNAP91 and PIP5K1C (PubMed:10944104). Interacts with LDLRAP1 (PubMed:15728179, PubMed:16516836, PubMed:16903783). Interacts with AMPH and BIN1 (PubMed:16516836, PubMed:16903783). Interacts with ARF6 (GDP-bound) (PubMed:17719203). Interacts (dephosphorylated at Tyr-737) with ARRB1; phosphorylation of AP2B1 at Tyr-737 disrupts the interaction (PubMed:11777907, PubMed:16516836, PubMed:17456551, PubMed:16903783). Interacts with SLC2A8 (PubMed:16723738). Interacts with SCYL1 and SCYL2 (PubMed:16903783). Interacts with TGFBR1 and TGFBR2 (PubMed:12429842). Interacts with PIP5K1C; clathrin competes with PIP5K1C (By similarity). Interacts with DENND1B, but not with DENND1A, nor DENND1C (PubMed:20154091). Interacts with FCHO1 (PubMed:22484487). Interacts with RFTN1 (PubMed:27022195). Similarity: Belongs to the adaptor complexes large subunit family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	51702211
NCBI GeneID	163
UniProt Accession #	P63010
Molecular Weight	Observed: 105 kDa Predicted: 105 kDa
NCBI Official Full Name	AP-2 complex subunit beta
NCBI Official Synonym Full Names	adaptor related protein complex 2 subunit beta 1
NCBI Official Symbol	AP2B1
NCBI Official Synonym Symbols	ADTB2; AP105B; CLAPB1; AP2-BETA
NCBI Protein Information	AP-2 complex subunit beta
UniProt Protein Name	AP-2 complex subunit beta
UniProt Gene Name	AP2B1
UniProt Synonym Gene Names	ADTB2; CLAPB1
UniProt Entry Name	AP2B1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ap2b1-antibody-western-blot-elisa/328768>