

Rabbit alpha Adaptin/AP2A1 Polyclonal Antibody | anti-AP2A1 antibody

Anti-alpha Adaptin/AP2A1 Antibody Picoband

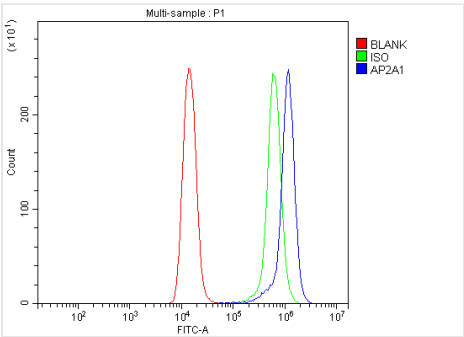
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126537	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

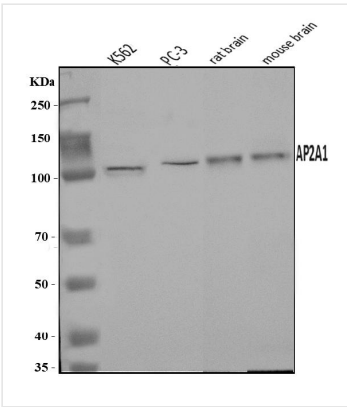
alpha Adaptin/AP2A1; Polyclonal Antibody; Anti-alpha Adaptin/AP2A1 Antibody Picoband; anti-AP2A1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-AP2A1 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human alpha Adaptin/AP2A1 recombinant protein (Position: S785-F977).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of Raji cells using anti-Alpha Adaptin/AP2A1 antibody (AAA126537).Overlay histogram showing Raji cells stained with AAA126537 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Alpha Adaptin/AP2A1 Antibody (AAA126537, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of Alpha Adaptin/AP2A1 using anti-Alpha Adaptin/AP2A1 antibody (AAA126537).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human K562 whole cell lysates,Lane 2: human PC-3 whole cell lysates,Lane 3: rat brain tissue lysates,Lane 4: mouse brain tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Alpha Adaptin/AP2A1 antigen affinity purified polyclonal antibody (#AAA126537) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Alpha Adaptin/AP2A1 at approximately 108 kDa. The expected band size for Alpha Adaptin/AP2A1 is at 108 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-AP2A1 antibody	AP-2 complex subunit alpha-1 is a protein that in humans is encoded by the AP2A1 gene. This gene encodes the alpha 1 adaptin subunit of the adaptor protein 2 (AP-2) complex found in clathrin coated vesicles. The AP-2 complex is a heterotetramer consisting of two large adaptins (alpha or beta), a medium adaptin (mu), and a small adaptin (sigma). The complex is part of the protein coat on the cytoplasmic face of coated vesicles which links clathrin to receptors in vesicles. Alternative splicing of this gene results in two transcript variants encoding two different isoforms. A third transcript variant has been described, but its full length nature has not been determined.
Product Categories/Family for anti-AP2A1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	19913414
NCBI GeneID	160
NCBI Accession #	NP_055018.2
NCBI GenBank Nucleotide #	NM_014203.2
UniProt Accession #	O95782; Q96C17; Q96PP6; Q96PP7; Q9H070
Molecular Weight	977
NCBI Official Full Name	AP-2 complex subunit alpha-1 isoform 1
NCBI Official Synonym Full Names	adaptor-related protein complex 2, alpha 1 subunit
NCBI Official Symbol	AP2A1
NCBI Official Synonym Symbols	ADTAA; CLAPA1; AP2-ALPHA

NCBI Protein Information	AP-2 complex subunit alpha-1; alpha1-adaptin; alpha-adaptin A; adaptin, alpha A; 100 kDa coated vesicle protein A; adaptor protein complex AP-2 subunit alpha-1; adapter-related protein complex 2 alpha-1 subunit; clathrin assembly protein complex 2 alpha-A
UniProt Protein Name	AP-2 complex subunit alpha-1
UniProt Gene Name	AP2A1
UniProt Synonym Gene Names	ADTAA; CLAPA1
UniProt Entry Name	AP2A1_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/alpha-adaptin-ap2a1-antibody-flow-cytometry-western-blot-elisa/126537>