Datasheet for ABIN129553

anti-AP2A (AA 1-25) antibody

1 Image

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Overview

Quantity:	100 µg
Target:	AP2A
Binding Specificity:	AA 1-25
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Application:	ELISA, Immunoprecipitation (IP), Western Blotting (WB)

Product Details

Purpose:	AP2A Antibody
Immunogen:	Immunogen: This affinity purified antibody was prepared from whole goat serum produced by repeated immunizations with a synthetic peptide corresponding to the N-Terminal region near aa 1-25 of Human AP2A1 and AP2A2 proteins. Immunogen Type: Conjugated Peptide
Isotype:	IgG
Cross-Reactivity (Details):	This affinity purified antibody is directed against human AP2A.
Characteristics:	Synonyms: goat anti-AP2A Antibody, AP-2 complex subunit alpha-1, Adapter-related protein complex 2 alpha-1 subunit, Adaptor protein complex AP-2 subunit alpha-1 Alpha1-adaptin, Plasma membrane adaptor HA2/AP2, Clathrin assembly protein complex 2 alpha-A large chain, AP2A2, ADTAB, CLAPA2, HIP9, HYPJ, KIAA0899
Purification:	The product was affinity purified from antiserum by immunoaffinity purification.

Product Details

Sterility:	Sterile filtered

Target Details

Target:	AP2A
Background:	Background: The AP2A1 and AP2A2 represent the AP2 alpha proteins that are found in the AP2 complex in clathrin-coated vesicles. AP2A is also known as Alpha-adaptin A, Adaptor protein complex AP-2 alpha-1 subunit, Clathrin assembly protein complex 2 alpha-A large chain, 100 kDa coated vesicle protein A and Plasma membrane adaptor HA2/AP2 adaptin alpha A subunit. The AP2 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 link clathrin to receptors in vesicles.
Gene ID:	161, 27477041
UniProt:	O95782

Application Details

Application Notes:	Application Note: This affinity purified antibody has been tested for use in ELISA and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 104-107 kDa in size corresponding to AP2A1 or AP2A2 proteins by western blotting in the appropriate cell lysate or extract. Multiple isoforms of each subunit exist for these proteins. The immunogen sequence is found in both AP2A1 and AP2A2. This antibody recognizes a band of approximately 100 kDa in multiple human cell lines and specific reactivity can be blocked with the immunizing peptide. Western Blot Dilution: 1:500 - 1:2,000 Immunoprecipitation Dilution: 1:100 ELISA Dilution: 1:5,000 - 1:20,000 Other: User Optimized
Restrictions:	For Research Use only

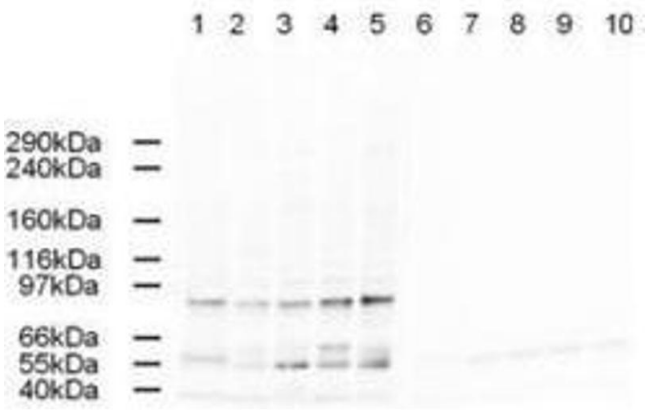
Handling

Format:	Liquid
Concentration:	1.7 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Handling

	Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
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:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Images



Western Blotting

Image 1. Western blot using Affinity Purified anti-AP2A antibody shows detection of a band just below 100 kDa correspond-ing to Human AP2A1 in a various preparations. Lane 1 - HeLa nuclear extract, Lane 2 - HeLa, Lane 3 - 293, Lane 4 - A431 and Lane 5 - Jurkat whole cell lysates. In lanes 6-10 the antibody was preincubated with 1 µg/ml of the immunizing peptide which effect-ively blocks the specific reactivity of this antibody with AP2A. Approximately 20 µg of each lysate was run on a SDS-PAGE and transferred onto nitrocellulose followed by reaction with a 1:500 dilution of anti-AP2A antibody. Detection occurred using a 1:5,000 dilution of HRP-labeled Rabbit anti-Goat IgG for 1 hour at room temperature. A chemi-luminescence system was used for signal detection (Roche) using a 60-sec exposure time.