

Anti-AP-1 complex subunit gamma-1 AP1G1 Antibody

Catalog Number: A12998

About AP1G1

AP1G1 (also known as gamma 1 subunit of adaptor -related protein complex 1, Gamma-adaptin, Adaptor protein complex AP-1 gamma-1 subunit, Golgi adaptor HA1/AP1 adaptin gamma-1 subunit and Clathrin assembly protein complex 1 gamma-1 large chain) is a subunit of clathrin-associated adaptor protein complex 1 that plays a role in protein sorting in the late-Golgi/trans-Golgi network (TGN) and/or endosomes. The AP complexes mediate both the recruitment of clathrin to membranes and the recognition of sorting signals within the cytosolic tails of transmembrane cargo molecules. The adaptin family of proteins is composed of four classes of molecules named alpha, beta-, beta prime- and gamma- adaptins. Adaptins, together with medium and small subunits, form a heterotetrameric complex called an adaptor, whose role is to promote the formation of clathrin-coated pits and vesicles. AP1G1 is localized to the coat surrounding the cytoplasmic face of coated vesicles located at the Golgi complex and is widely expressed.

Overview

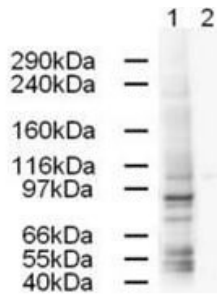
Product Name	Anti-AP-1 complex subunit gamma-1 AP1G1 Antibody
Reactive Species	Human
Description	Boster Bio Anti-AP-1 complex subunit gamma-1 AP1G1 Antibody (Catalog # A12998). Tested in ELISA, WB applications. This antibody reacts with Human.
Application	ELISA, IP, WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	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. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Goat
Uniprot ID	O43747

Technical Details

Immunogen	This affinity purified antibody was prepared from whole goat serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region near aa 625-675 of Human AP1G1.
Predicted Reactive Species	Canine, Chicken, Chimpanzee
Isotype	IgG

Form	Liquid (sterile filtered)
Concentration	0.7 mg/mL by UV absorbance at 280 nm
Purification	This affinity purified antibody is directed against human AP1G1. The product was affinity purified from antiserum by immunoaffinity purification. A BLAST analysis was used to suggest reactivity with this protein from human, chimpanzee and orangutan based on 100% homology for the immunogen sequence. Cross-reactivity with AP1G1 protein from mouse, rat, dog and chicken may occur as sequence homology varies by only one amino acid residue in this sequence as indicated by BLAST analysis. Reactivity with AP1G1 proteins from other sources is not known.
Suggested Dilutions	ELISA: 1:2,000 - 1:8,000 IP: 1:100 WB: 1:500 - 1:2,000 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 91 kDa in size corresponding to AP1G1 by western blotting in the appropriate cell lysate or extract.

Anti-AP-1 complex subunit gamma-1 AP1G1 Antibody (A12998) Images



Western blot using Boster's Affinity Purified anti-AP1G1 antibody shows strong detection of a 91-kDa band corresponding to Human AP1G1. Lane 1: HeLa whole cell lysate. Lane 2: Peptide competition (using 1 µg/ml of the immunizing peptide) blocks the specific reactivity of this antibody with AP1G1. 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-AP1G1 antibody. Detection occurred using a 1:5,000 dilution of HRP-labeled Rabbit anti-Goat IgG for 1 hour at room temperature. A chemiluminescence system was used for signal detection (Roche) using a 60-sec exposure time.

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