

Datasheet for 600-101-289**AP1G1 Antibody****Overview**

Description:	Anti-AP1G1 (GOAT) Antibody - 600-101-289
Item No.:	600-101-289
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human
Host Species:	Goat

Product Details

Background:	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.
Synonyms:	goat anti-AP1G1 Antibody, AP-1 complex subunit gamma-1, Adapter-related protein complex 1 subunit gamma-1, Adaptor protein complex AP-1 subunit gamma-1, Golgi adaptor HA1/AP1 adaptin subunit gamma-1, Gamma1-adaptin, Clathrin assembly protein complex 1 gamma-1 large chain, ADTG, CLAPG1, AP1G
Host Species:	Goat
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	AP1G1
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Reactivity:	Human
Immunogen Type:	Conjugated Peptide
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.
Purity/Specificity:	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.
Relevant Links:	• UniProtKB - O43747 • NCBI - 71772942 • GeneID - 164

Application Details

Tested Applications:	ELISA, WB
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 91 kDa in size corresponding to AP1G1 by western blotting in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:2,000 - 1:8,000
IP:	1:100
WB:	1:500 - 1:2,000

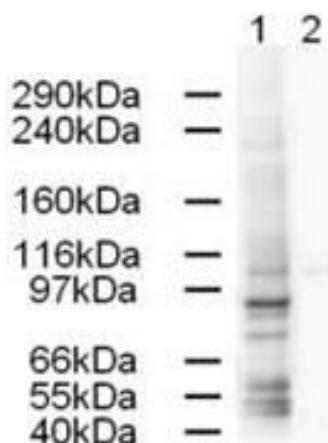
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.7 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	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:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western blot using Rockland's Affinity Purified anti-AP1G1 antibody shows strong detection of a 91-kDa band corresponding to Human AP1G1. Lane 1: HeLa whole cell lysate (p/n W09-000-364). 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 (p/n 605-4302) for 1 hour at room temperature. A chemiluminescence system was used for signal detection (Roche) using a 60-sec exposure time.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.