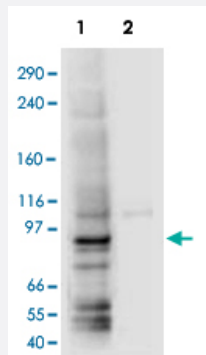


AP1G1 polyclonal antibody

Catalog # PAB10221 Size 100 ug

Applications

Western Blot (Cell lysate)



Western blot using AP1G1 polyclonal antibody (Cat # PAB10221) shows strong detection of a 91 KDa band corresponding to human AP1G1 in a HeLa whole cell lysate (Lane 1).

Peptide competition (using 1 ug/mL of the immunizing peptide) blocks the specific reactivity of this antibody with AP1G1 (Lane 2).

Approximately 20 ug of each lysate was run on a SDS-PAGE and transferred onto nitrocellulose followed by reaction with a 1:500 dilution of AP1G1 polyclonal 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 using a 60-sec exposure time.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of AP1G1.
Immunogen	A synthetic peptide corresponding to amino acids 646-659 of human AP1G1.
Host	Goat
Reactivity	Chimpanzee, Human, Orangutan
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:2000-1:8000) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.

Storage Buffer	In 20 mM KH ₂ PO ₄ , 150 mM NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

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- Immunoprecipitation

- Enzyme-linked Immunoabsorbent Assay

Gene Info — AP1G1

Entrez GeneID	164
Protein Accession#	O43747;NP_001119
Gene Name	AP1G1
Gene Alias	ADTG, CLAPG1, MGC18255
Gene Description	adaptor-related protein complex 1, gamma 1 subunit
Omim ID	603533
Gene Ontology	Hyperlink

Gene Summary

Adaptins are important components of clathrin-coated vesicles transporting ligand-receptor complexes from the plasma membrane or from the trans-Golgi network to lysosomes. 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. The protein encoded by this gene is a gamma-adaptin protein and it belongs to the adaptor complex large subunits family. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations

clathrin assembly protein complex 1 gamma large chain|clathrin-associated/assembly/adaptor protein, large, gamma 1|gamma adaptin|golgi adaptor HA1/AP1 adaptin gamma subunit

Publication Reference

- [Structural basis for the accessory protein recruitment by the gamma-adaptin ear domain.](#)

Nogi T, Shiba Y, Kawasaki M, Shiba T, Matsugaki N, Igarashi N, Suzuki M, Kato R, Takatsu H, Nakayama K, Wakatsuki S.
Nature Structural Biology 2002 Jul; 9(7):527.

- [Gamma-adaptin interacts directly with Rabaptin-5 through its ear domain.](#)

Shiba Y, Takatsu H, Shin HW, Nakayama K.
Journal of Biochemistry 2002 Mar; 131(3):327.

Application: IF, WB-Tr, Human, HeLa cells

- [Identification and characterization of novel clathrin adaptor-related proteins.](#)

Takatsu H, Sakurai M, Shin HW, Murakami K, Nakayama K.
The Journal of Biological Chemistry 1998 Sep; 273(38):24693.

Application: IF, WB-Tr, Human, Rat, HEK 293, HL-60, Rat hepatocyte Clone 9 cells cells

Pathway

- [Lysosome](#)

Disease

- [Tobacco Use Disorder](#)