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KD-Validated Anti-AP1G1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1342

Specification

KD-Validated Anti-AP1G1 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	O43747
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 91 kDa, observed, 98 kDa KDa**
Gene Name	**AP1G1**
Aliases	**AP1G1; Adaptor Related Protein Complex 1 Subunit Gamma 1; Gamma1-Adaptin; CLAPG1; ADTG; Clathrin Assembly Protein Complex 1 Gamma-1 Large Chain; Adaptor Related Protein Complex 1 Gamma 1 Subunit; Golgi Adaptor HA1/AP1 Adaptin Subunit Gamma-1; Adaptor Protein Complex AP-1 Subunit Gamma-1; AP-1 Complex Subunit Gamma-1; Clathrin-Associated/Assembly/Adaptor Protein, Large, Gamma 1; Clathrin Assembly Protein Complex 1 Gamma Large Chain; Adaptor-Related Protein Complex 1, Gamma 1 Subunit; Adapter-Related Protein Complex 1 Subunit Gamma-1; Adaptor-Related Protein Complex 1 Subunit Gamma-1; Golgi Adaptor HA1/AP1 Adaptin Gamma Subunit; Testicular Tissue Protein Li 21; Gamma Adaptin; USRISD**
Immunogen	**A synthesized peptide derived from human AP1G1**

KD-Validated Anti-AP1G1 Rabbit Monoclonal Antibody - Additional Information

Gene ID **164**

Other Names
AP-1 complex subunit gamma-1, Adaptor protein complex AP-1 subunit gamma-1, Adaptor-related protein complex 1 subunit gamma-1, Clathrin assembly protein complex 1 gamma-1 large chain, Gamma1-adaptin, Golgi adaptor HA1/AP1 adaptin subunit gamma-1, AP1G1, ADTG, CLAPG1

KD-Validated Anti-AP1G1 Rabbit Monoclonal Antibody - Protein Information

Name AP1G1

Synonyms ADTG, CLAPG1

Function
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. In association with AFTPH/aftiphilin in the aftiphilin/p200/gamma-synergin complex, involved in the trafficking of transferrin from early to recycling endosomes, and the membrane trafficking of furin and the lysosomal enzyme cathepsin D between the trans-Golgi network (TGN) and endosomes (PubMed:15758025).

Cellular Location
Golgi apparatus. Cytoplasmic vesicle, clathrin-coated vesicle membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasm Cytoplasm, perinuclear region. Cytoplasmic vesicle, clathrin-coated vesicle. Membrane, clathrin-coated pit. Note=Component of the coat surrounding the cytoplasmic face of coated vesicles located at the Golgi complex (PubMed:12773381). Co-localizes with AFTPH/aftiphilin in the cytoplasm (PubMed:15758025).

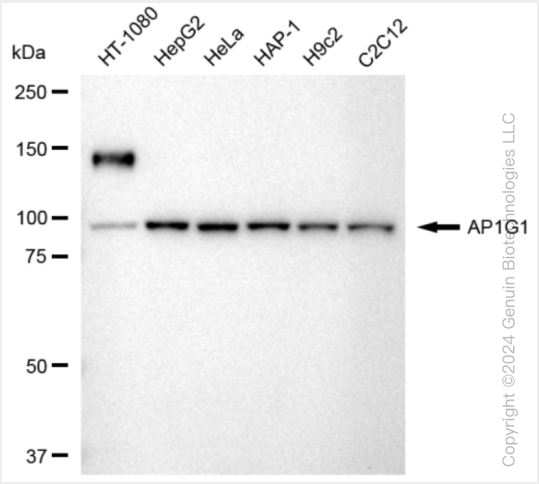
Tissue Location
Widely expressed.

KD-Validated Anti-AP1G1 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-AP1G1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-AP1G1 antibody (Cat#AGI1342). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-AP1G1 antibody (Cat#AGI1342, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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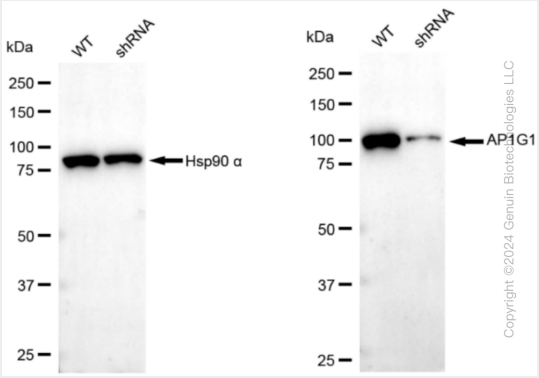
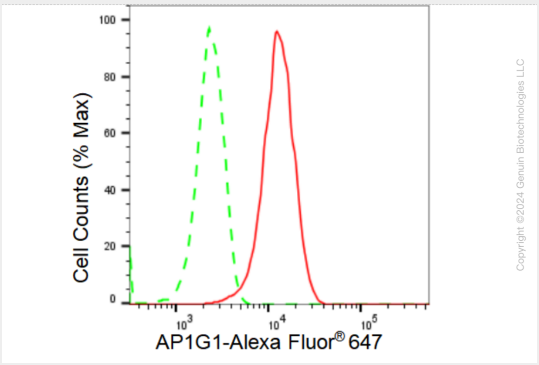
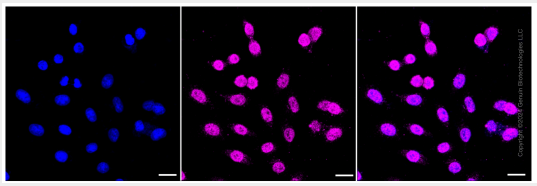


Western blotting analysis using anti-AP1G1 antibody (Cat#AGI1342). AP1G1 expression in wild type (WT) and AP1G1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-AP1G1 antibody (Cat#AGI1342, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of AP1G1 expression in HepG2 cells using AP1G1 antibody (Cat#AGI1342, 1:2,000). Green, isotype control; red, AP1G1.



Immunocytochemical staining of HepG2 cells with AP1G1 antibody (Cat#AGI1342, 1:1,000). Nuclei were stained blue with DAPI; AP1G1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.