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Gamma-Adaptin Rabbit pAb

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Catalog # AP56062

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	O43747
Reactivity	Rat, Human, Mouse
Predicted	Pig, Dog, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	91351
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Gamma-Adaptin
Epitope Specificity	721-822/822
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Golgi apparatus. Cytoplasmic vesicle, clathrin-coated vesicle membrane; Peripheral membrane protein; Cytoplasmic side.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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 complexes large subunits family.

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, Gamma-adaptin, Gamma1-adaptin, Golgi adaptor HA1/AP1 adaptin subunit gamma-1, AP1G1 {ECO:0000303|PubMed:34102099, ECO:0000312|HGNC:HGNC:555}
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name

AP1G1 {ECO:0000303|PubMed:34102099, ECO:0000312|HGNC:HGNC:555}

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).

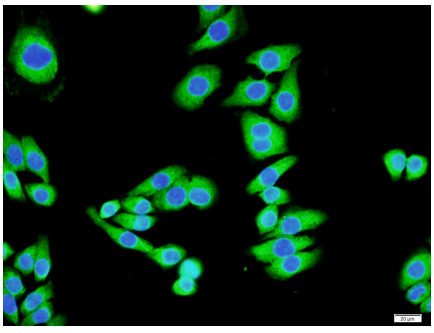
Tissue Location

Widely expressed.

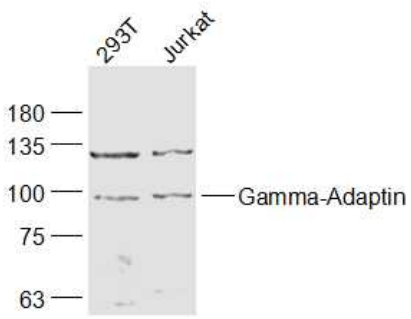
Background

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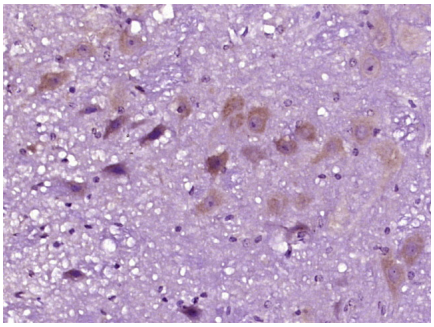
Images



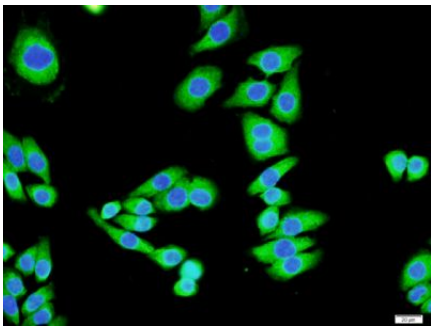
Cell culture(MCF7); Paraformaldehyde-fixed; Incubated by 0.3% Triton-100 for 20 min; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Gamma-Adaptin) Polyclonal Antibody, Unconjugated (AP56062) at 1:200 overnight at 4°C, followed by a conjugated secondary antibody (AP56062-FITC) for 90 minutes and DAPI staining.



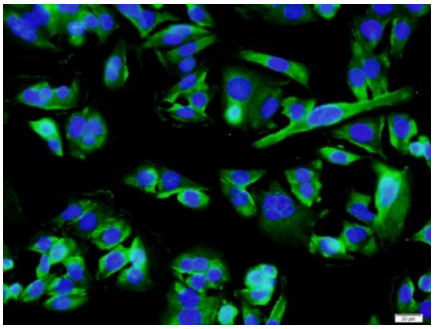
Sample:
293T(Human) Cell Lysate at 30 ug
Jurkat(Human) Cell Lysate at 30 ug
Primary: Anti-Gamma-Adaptin (AP56062) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 91 kD
Observed band size: 91 kD



Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Gamma-Adaptin) Polyclonal Antibody, Unconjugated (AP56062) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Cell culture(MCF7); Paraformaldehyde-fixed; Incubated by 0.3% Triton-100 for 20 min; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Gamma-Adaptin) Polyclonal Antibody, Unconjugated (AP56062) at 1:200 overnight at 4°C, followed by a conjugated secondary antibody (bs-0295G-FITC) for 90 minutes and DAPI staining.



Cell culture(SW480); Paraformaldehyde-fixed; Incubated by 0.3% Triton-100 for 20 min; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Gamma-Adaptin) Polyclonal Antibody, Unconjugated (AP56062) at 1:200 overnight at 4°C, followed by a conjugated secondary antibody (bs-0295G-FITC) for 90 minutes and DAPI staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.