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gamma Adaptin Recombinant Rabbit mAb

Catalog # AP100040

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	O43747
Other Accession	O43747
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	91351
Physical State	Liquid
Immunogen	A synthesized peptide derived from human gamma 1 Adaptin
Epitope Specificity	780-822
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol.
SIMILARITY	Belongs to the adaptor complexes large subunit family. Contains 1 GAE domain.
SUBUNIT	Adaptor protein complex 1 (AP-1) is an heterotetramer composed of two large adaptins (gamma-type subunit AP1G1 and beta-type subunit AP1B1), a medium adaptin (mu-type subunit AP1M1 or AP1M2) and a small adaptin (sigma-type subunit AP1S1 or AP1S2 or AP1S3). Binds RABEP1 and SYNRG. Interacts (via GAE domain) with AP1AR (via coiled-coil domain).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	164
Other Names	AP1G1_HUMAN; AP1G1; 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; ADTG; CLAPG1; AP1G1_MOUSE; Gamma-adaptin; adaptor related protein complex 1 subunit gamma 1; adaptor-related protein complex 1, gamma 1 subunit; adaptor related protein complex 1 gamma 1 subunit
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1:50-100

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.

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