

Rabbit anti-Human, mouse GGA1 Polyclonal Antibody | anti-GGA1 antibody

GGA1 Antibody (N-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA284417	Rabbit	Human, mouse	Immunofluorescence, ELISA, Western Blot

PRODUCT SYNONYMS

GGA1; Polyclonal Antibody; GGA1 Antibody (N-term); ADP-ribosylation factor-binding protein GGA1; Gamma-adaptin-related protein 1; Golgi-localized; gamma ear-containing; ARF-binding protein 1; anti-GGA1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This GGA1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human GGA1.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Sequence Positions	1-30
Sequence Length	656
Applicable Applications for anti-GGA1 antibody	IF (Immunofluorescence), ELISA, WB (Western Blot)
Function	Plays a role in protein sorting and trafficking between the trans-Golgi network (TGN) and endosomes. Mediates the ARF- dependent recruitment of clathrin to the TGN and binds ubiquitinated proteins and membrane cargo molecules with a cytosolic acidic cluster-dileucine (AC-LL) motif.
Cellular Location	Golgi apparatus, trans-Golgi network membrane; Peripheral membrane protein. Endosome membrane; Peripheral membrane protein
Tissue Location	Ubiquitously expressed
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



IF (Immunofluorescence)
A, N2a cells cotransfected with APP770 –V5 and GGA1 –myc or empty vector were immunostained for APP (Alexa488; green), GGA1 (Cy5; blue), and the Golgi marker GM130 (Cy3; red). B, The same transfection was stained for the endosomal marker EEA1 (Cy3). C, To assess cell-surface localization, APP695 –GFP and GGA1 –myc or empty vector were cotransfected and then immunostained with an Ab to the APP ectodomain on ice without permeabilization (Cy3). Cells were then fixed, permeabilized, and stained for GGA1 (Cy5). (J. Neurosci. 2006 Sep 27;26(39):9913-9922

WB (Western Blot)
The anti-GGA1 Pab is used in Western blot to detect GGA1 in mouse kidney tissue lysate (lane 1) and Jurkat cell lysate (lane 2).

ADDITIONAL INFORMATION

Related Product Information for anti-GGA1 antibody	GGA1 is a member of the Golgi-localized, gamma adaptin ear-containing, ARF-binding (GGA) protein family. Members of this family are ubiquitous coat proteins that regulate the trafficking of proteins between the trans-Golgi network and the lysosome. These proteins share an amino-terminal VHS domain which mediates sorting of the mannose 6-phosphate receptors at the trans-Golgi network. They also contain a carboxy-terminal region with homology to the ear domain of gamma-adaptins.
Product Categories/Family for anti-GGA1 antibody	Signal Transduction
References	Zhai, P., et al., Biochemistry 42(47):13901-13908 (2003). Zhu, G., et al., Biochemistry 42(21):6392-6399 (2003). Shiba, T., et al., Nat. Struct. Biol. 10(5):386-393 (2003). Suer, S., et al., Proc. Natl. Acad. Sci. U.S.A. 100(8):4451-4456 (2003). Shiba, T., et al., Nature 415(6874):937-941 (2002).

NCBI AND UNIPROT INFORMATION

NCBI GI #	48527952
NCBI GeneID	26088
NCBI Accession #	NP_001001560.1; NP_001001561.1; NP_001166158.1; NP_001166159.1; NP_037497.1
NCBI GenBank Nucleotide #	NM_001001560.2
UniProt Accession #	Q9UJY5; Q5R3N1; Q5TG07; Q6IC75; Q86YA9; Q8NCS6; Q9BW94; Q9UG00; Q9UGW0; Q9UGW1; A8K3D3; B0QYR7
Molecular Weight	70384
NCBI Official Full Name	ADP-ribosylation factor-binding protein GGA1 isoform 2
NCBI Official Synonym Full Names	golgi-associated, gamma adaptin ear containing, ARF binding protein 1
NCBI Official Symbol	GGA1
NCBI Protein Information	ADP-ribosylation factor-binding protein GGA1
UniProt Protein Name	ADP-ribosylation factor-binding protein GGA1

UniProt Gene Name	GGA1
UniProt Entry Name	GGA1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/gga1-antibody-immunofluorescence-western-blot-elisa/284417>