

Rabbit GGA3 Polyclonal Antibody | anti-GGA3 antibody

GGA3 Antibody

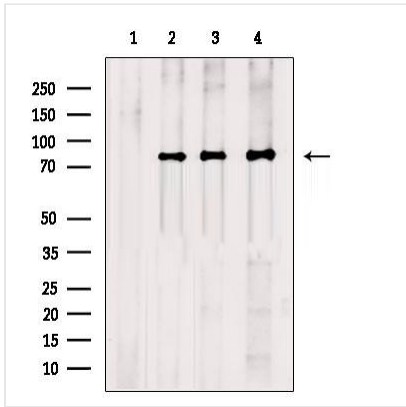
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329127	Rabbit	Human, Mouse, Rat, Monkey Predicted Reactivity: Pig(100%), Zebrafish(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Chicken(100%), Xenopus(88%)	ELISA

PRODUCT SYNONYMS

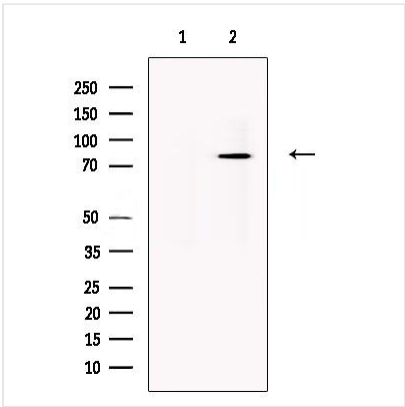
GGA3; Polyclonal Antibody; GGA3 Antibody; ADP ribosylation factor binding protein 3; ADP ribosylation factor binding protein GGA 3; ADP ribosylation factor binding protein GGA3; ADP-ribosylation factor-binding protein GGA3; ARF binding protein GGA 3; ARF binding protein GGA3; ARF-binding protein 3; gamma ear-containing; GGA 3; GGA3_HUMAN; Golgi associated gamma adaptin ear containing ARF binding protein 3; Golgi localized gamma ear containing ARF binding protein 3; Golgi-localized; KIAA0154; anti-GGA3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat, Monkey Predicted Reactivity: Pig(100%), Zebrafish(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Chicken(100%), Xenopus(88%)
Clonality	Polyclonal
Isotype	IgG
Specificity	GGA3 Antibody detects endogenous levels of total GGA3.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	651
Applicable Applications for anti-GGA3 antibody	ELISA
Immunogen	A synthesized peptide derived from human GGA3, corresponding to a region within N-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of extracts from various samples, using GGA3 Antibody. Lane 1: HepG2 cells, treated with blocking peptide; Lane 2: HepG2 cells; Lane 3: COS; Lane 4: HeLa cells.



WB (Western Blot)
Western blot analysis of extracts from A431 cells, using GGA3 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-GGA3 antibody	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 (DXXLL) motif (PubMed:11301005). Mediates export of the GPCR receptor ADRA2B to the cell surface (PubMed:26811329). Involved in BACE1 transport and sorting as well as regulation of BACE1 protein levels (PubMed:17553422, PubMed:15615712, PubMed:20484053). Regulates retrograde transport of BACE1 from endosomes to the trans-Golgi network via interaction through the VHS motif and dependent of BACE1 phosphorylation (PubMed:15615712). Modulates BACE1 protein levels independently of the interaction between VHS domain and DXXLL motif through recognition of ubiquitination (PubMed:20484053). Key player in a novel DXXLL-mediated endosomal sorting machinery to the recycling pathway that targets NTRK1 to the plasma membrane (By similarity). Post Translational Modifications: Phosphorylated by CK2 and dephosphorylated by PP2A (By similarity). Phosphorylation of GGA3 allows the internal DXXLL motif to bind the VHS domain and to inhibit the recognition of cargo signals. Ubiquitinated. Proteolytically cleaved during apoptosis by CASP3. Subcellular Location: Golgi apparatus>trans-Golgi network membrane>Peripheral membrane protein. Endosome membrane>Peripheral membrane protein. Early endosome membrane>Peripheral membrane protein. Recycling endosome membrane>Peripheral membrane protein. Tissue Specificity: Ubiquitously expressed. Subunit Structure: Monomer (Probable). Interacts with GGA1 and GGA2 (PubMed:14638859). Binds to clathrin and activated ARFs, such as ARF1, ARF5 and ARF6 (PubMed:11301005, PubMed:11950392). Binds RABEP1 and RABGEF1 (PubMed:12505986, PubMed:15143060). Interacts with the membrane proteins M6PR/CD-MPR and IGF2R/CI-MPR and the accessory proteins SYNRG, EPN4, NECAP1, NECAP2 and AFTPH/aftiphilin (PubMed:10814529, PubMed:11387475, PubMed:12060753, PubMed:12213833, PubMed:14665628). Interacts with TSG101 and UBC (PubMed:14660606, PubMed:15039775). Interacts with ADRA2B (PubMed:26811329). Interacts with NTRK1; the interaction is independent of NTRK1 activation and ubiquitination (PubMed:26446845). Interacts (via VHS domain) with BACE1 (via DXXLL motif) (PubMed:14567678). Similarity: The VHS domain functions as a recognition module for sorting signals composed of an acidic cluster followed by two leucines (DXXLL motif). The GAT domain is responsible for interaction with ARF-GTP, UBC and RABEP1. Required for recruitment to the TGN it prevents ARF-GTP hydrolysis. The unstructured hinge region contains clathrin-binding and an autoinhibitory (DXXLL) motifs. The GAE domain binds accessory proteins regulating GGAs function. Belongs to the GGA protein family.
--	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	289577109
NCBI GeneID	23163

NCBI Accession #	NP_001166174.1
NCBI GenBank Nucleotide #	NP_001166174.1
UniProt Accession #	Q9NZ52
Molecular Weight	Observed Molecular Weight: (Observed)78kD. Predicted Molecular Weight: (Calculated)78kDa.
NCBI Official Full Name	ADP-ribosylation factor-binding protein GGA3 isoform 1
NCBI Official Synonym Full Names	golgi associated, gamma adaptin ear containing, ARF binding protein 3
NCBI Official Symbol	GGA3
NCBI Protein Information	ADP-ribosylation factor-binding protein GGA3
UniProt Protein Name	ADP-ribosylation factor-binding protein GGA3
UniProt Gene Name	GGA3
UniProt Synonym Gene Names	KIAA0154
UniProt Entry Name	GGA3_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/gga3-antibody-elisa/329127>