

GGA3 Antibody (C-Term)
Peptide-affinity purified goat antibody
Catalog # AF2450a**Specification**

GGA3 Antibody (C-Term) - Product Information

Application	E
Primary Accession	O9NZ52
Other Accession	NP_619525.1 , NP_054720.1 , 23163
Predicted	Human, Mouse, Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	78315

GGA3 Antibody (C-Term) - Additional Information**Gene ID** 23163**Other Names**

ADP-ribosylation factor-binding protein GGA3, Golgi-localized, gamma ear-containing, ARF-binding protein 3, GGA3, KIAA0154

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

GGA3 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

GGA3 Antibody (C-Term) - Protein Information**Name** GGA3 {ECO:0000312|MIM:606006}**Synonyms** KIAA0154**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).

Cellular Location

Golgi apparatus, trans-Golgi network membrane; Peripheral membrane protein. Endosome membrane; Peripheral membrane protein. Early endosome membrane; Peripheral membrane protein. Recycling endosome membrane {ECO:0000250|UniProtKB:A0A0G2JV04}; Peripheral membrane protein

Tissue Location

Ubiquitously expressed.

GGA3 Antibody (C-Term) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GGA3 Antibody (C-Term) - Images

GGA3 Antibody (C-Term) - Background

This antibody is expected to recognise both reported isoforms (NP_619525 and NP_054720)

GGA3 Antibody (C-Term) - References

Structural mechanism for ubiquitinated-cargo recognition by the Golgi-localized, gamma-ear-containing, ADP-ribosylation-factor-binding proteins. Prag G, Lee S, Mattera R, Arighi CN, Beach BM, Bonifacino JS, Hurley JH. Proc Natl Acad Sci U S A. 2005 Feb 15;102(7):2334-9. Epub 2005 Feb 8. PMID: 15701688