

**GGA1 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP2316b****Specification**

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**GGA1 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q9UJY5](#)**GGA1 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 26088**Other Names**

ADP-ribosylation factor-binding protein GGA1, Gamma-adaptin-related protein 1, Golgi-localized, gamma ear-containing, ARF-binding protein 1, GGA1

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP2316b](/product/products/AP2316b) was selected from the C-term region of human GGA1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**GGA1 Antibody (C-term) Blocking Peptide - Protein Information****Name** GGA1**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: <http://www.uniprot.org/citations/11301005> target="\_blank">11301005</a>, PubMed: <http://www.uniprot.org/citations/15886016> target="\_blank">15886016</a>). Mediates export of the GPCR receptor ADRA2B to the cell surface (PubMed: <http://www.uniprot.org/citations/27901063> target="\_blank">27901063</a>). Required for targeting PKD1:PKD2 complex from the trans-Golgi network to the cilium membrane (By similarity). Regulates retrograde transport of proteins such as phosphorylated form of BACE1 from endosomes to the trans-Golgi network (PubMed: <http://www.uniprot.org/citations/15615712> target="\_blank">15615712</a>, PubMed: [15615712](#) target="\_blank">15615712</a>).

href="http://www.uniprot.org/citations/15886016" target="\_blank">15886016</a>).

**Cellular Location**

Golgi apparatus, trans-Golgi network membrane; Peripheral membrane protein. Endosome membrane; Peripheral membrane protein Early endosome membrane; Peripheral membrane protein

**Tissue Location**

Ubiquitously expressed.

**GGA1 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**GGA1 Antibody (C-term) Blocking Peptide - Images****GGA1 Antibody (C-term) Blocking Peptide - Background**

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.

**GGA1 Antibody (C-term) Blocking Peptide - 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).