

GGA1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP2316a**Specification**

GGA1 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [O9UJY5](#)**GGA1 Antibody (N-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 [AP2316a](/product/products/AP2316a) was selected from the N-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 (N-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: [11301005](http://www.uniprot.org/citations/11301005), PubMed: [15886016](http://www.uniprot.org/citations/15886016)). Mediates export of the GPCR receptor ADRA2B to the cell surface (PubMed: [27901063](http://www.uniprot.org/citations/27901063)). 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: [15615712](http://www.uniprot.org/citations/15615712), PubMed: [15615712](#)).

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

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 (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

GGA1 Antibody (N-term) Blocking Peptide - Images**GGA1 Antibody (N-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 (N-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).