

**GGA2 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP2317b****Specification**

---

**GGA2 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [O9UJY4](#)**GGA2 Antibody (Center) Blocking Peptide - Additional Information**

Gene ID 23062

**Other Names**

ADP-ribosylation factor-binding protein GGA2, Gamma-adaptin-related protein 2, Golgi-localized, gamma ear-containing, ARF-binding protein 2, VHS domain and ear domain of gamma-adaptin, Vear, GGA2, KIAA1080

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP2317b](/product/products/AP2317b) was selected from the Center region of human GGA2. 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.

**GGA2 Antibody (Center) Blocking Peptide - Protein Information**

Name GGA2

Synonyms KIAA1080

**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: [10747088](http://www.uniprot.org/citations/10747088)). Mediates export of the GPCR receptor ADRA2B to the cell surface (PubMed: [27901063](http://www.uniprot.org/citations/27901063)). Regulates retrograde transport of phosphorylated form of BACE1 from endosomes to the trans- Golgi network (PubMed: [27901063](#)).

href="http://www.uniprot.org/citations/15615712" target="\_blank">15615712</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.

**GGA2 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**GGA2 Antibody (Center) Blocking Peptide - Images****GGA2 Antibody (Center) Blocking Peptide - Background**

GGA2 is a member of the Golgi-localized, gamma adaptin ear-containing, ARF-binding (GGA) family. This family includes 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. This family member may play a significant role in cargo molecules regulation and clathrin-coated vesicle assembly.

**GGA2 Antibody (Center) Blocking Peptide - References**

Kalthoff, C., et al., Mol. Biol. Cell 13(11):4060-4073 (2002).Wasiak, S., et al., J. Cell Biol. 158(5):855-862 (2002).Puertollano, R., et al., Science 292(5522):1712-1716 (2001).Zhu, Y., et al., Science 292(5522):1716-1718 (2001).Nielsen, M.S., et al., EMBO J. 20(9):2180-2190 (2001).