

GGA2 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP2317a**Specification**

GGA2 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession
Other Accession[O9UJY4](#)
[GGA2_HUMAN](#)**GGA2 Antibody (N-term) 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 [AP2317a](/product/products/AP2317a) was selected from the N-term 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 (N-term) 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:15615712).

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 (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

GGA2 Antibody (N-term) Blocking Peptide - Images**GGA2 Antibody (N-term) 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.

GGA2 Antibody (N-term) Blocking Peptide - References

Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002).Kalthoff, C., et al., Mol. Biol. Cell 13(11):4060-4073 (2002).Nielsen, M.S., et al., EMBO J. 20(9):2180-2190 (2001).Boman, A.L., et al., Mol. Biol. Cell 11(4):1241-1255 (2000).Hirst, J., et al., J. Cell Biol. 149(1):67-80 (2000).