

BAIAP3 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP8175a**Specification**

BAIAP3 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession [O94812](#)
Other Accession [NP_003924](#)

BAIAP3 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 8938

Other Names

BAI1-associated protein 3, BAP3, BAIAP3, KIAA0734

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP8175a](/product/products/AP8175a) was selected from the C-term region of human BAIAP3. 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.

BAIAP3 Antibody (C-term) Blocking Peptide - Protein Information

Name BAIAP3 {ECO:0000303|PubMed:28626000, ECO:0000312|HGNC:HGNC:948}

Function

Functions in endosome to Golgi retrograde transport. In response to calcium influx, may interact with SNARE fusion receptors and membrane phospholipids to mediate endosome fusion with the trans- Golgi network. By promoting the recycling of secretory vesicle transmembrane proteins, it indirectly controls dense-core secretory vesicle biogenesis, maturation and their ability to mediate the constitutive and regulated secretion of neurotransmitters and hormones. May regulate behavior and food intake by controlling calcium-stimulated exocytosis of neurotransmitters including NPY and serotonin and hormones like insulin (PubMed:<http://www.uniprot.org/citations/28626000> target="_blank">28626000). Proposed to play a role in hypothalamic neuronal firing by modulating gamma-aminobutyric acid (GABA)ergic inhibitory neurotransmission (By similarity).

Cellular Location

Cytoplasm, cytosol. Recycling endosome membrane; Peripheral membrane protein. Late endosome membrane; Peripheral membrane protein. Golgi apparatus, trans-Golgi network membrane; Peripheral membrane protein. Cell membrane; Peripheral membrane protein. Note=Rapidly recruited to the plasma membrane and to Golgi structures in response to increased intracellular calcium concentration.

Tissue Location

Predominantly expressed in brain (PubMed:9790924). Also expressed in nonneural tissues such as breast and testes epithelium (PubMed:12498718).

BAIAP3 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

BAIAP3 Antibody (C-term) Blocking Peptide - Images**BAIAP3 Antibody (C-term) Blocking Peptide - Background**

BAIAP3, a target of p53, is a brain-specific angiogenesis inhibitor. The protein is a seven-span transmembrane protein and a member of the secretin receptor family. It interacts with the cytoplasmic region of brain-specific angiogenesis inhibitor 1. This protein also contains two C2 domains, which are often found in proteins involved in signal transduction or membrane trafficking. Its expression pattern and similarity to other proteins suggest that it may be involved in synaptic functions.

BAIAP3 Antibody (C-term) Blocking Peptide - References

Shiratsuchi, T., et al., Biochem. Biophys. Res. Commun. 251(1):158-165 (1998).