

GAK Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP8061b**Specification**

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

Primary Accession [O14976](#)
Other Accession [Q6P490](#)

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

Gene ID 2580

Other Names

Cyclin-G-associated kinase, GAK

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP8061b](/product/products/AP8061b) was selected from the C-term region of human GAK. 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.

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

Name GAK ([HGNC:4113](#))

Function

Associates with cyclin G and CDK5. Seems to act as an auxilin homolog that is involved in the uncoating of clathrin-coated vesicles by Hsc70 in non-neuronal cells. Expression oscillates slightly during the cell cycle, peaking at G1 (PubMed:[10625686](http://www.uniprot.org/citations/10625686)). May play a role in clathrin-mediated endocytosis and intracellular trafficking, and in the dynamics of clathrin assembly/disassembly (PubMed:[18489706](http://www.uniprot.org/citations/18489706)).

Cellular Location

Cytoplasm, perinuclear region. Golgi apparatus, trans-Golgi network. Cell junction, focal adhesion. Cytoplasmic vesicle, clathrin-coated vesicle. Note=Localizes to the perinuclear area and to the trans-Golgi network. Also seen on the plasma membrane, probably at focal adhesions. Recruitment

to clathrin-coated vesicles depends on temporal variations in phosphoinositide composition of clathrin-coated vesicles (PubMed:31962345)

Tissue Location

Ubiquitous. Highest in testis.

GAK Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

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

GAK, a member of the Ser/Thr protein kinase family, associates with cyclin G and CDK5. It appears to act as an auxilin homolog that is involved in the uncoating of clathrin-coated vesicles by Hsc70 in non-neuronal cells. Expression oscillates slightly during the cell cycle, peaking at G1. GAK localizes to the perinuclear area and to the trans-Golgi network. It is also observed on the plasma membrane, probably at focal adhesions. Expression is ubiquitous, with highest levels in testis. The protein contains 1 J domain and 1 tensin domain.

GAK Antibody (C-term) Blocking Peptide - References

Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002). Greener, T., et al., J. Biol. Chem. 275(2):1365-1370 (2000). Kimura, S.H., et al., Genomics 44(2):179-187 (1997).