

PASK Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP7163a**Specification**

PASK Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q96RG2](#)**PASK Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 23178**Other Names**

PAS domain-containing serine/threonine-protein kinase, PAS-kinase, PASKIN, hPASK, PASK, KIAA0135

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7163a](/product/products/AP7163a) was selected from the N-term region of human PASK. 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.

PASK Antibody (N-term) Blocking Peptide - Protein Information**Name** PASK**Synonyms** KIAA0135**Function**

Serine/threonine-protein kinase involved in energy homeostasis and protein translation. Phosphorylates EEF1A1, GYS1, PDX1 and RPS6. Probably plays a role under changing environmental conditions (oxygen, glucose, nutrition), rather than under standard conditions. Acts as a sensor involved in energy homeostasis: regulates glycogen synthase synthesis by mediating phosphorylation of GYS1, leading to GYS1 inactivation. May be involved in glucose-stimulated insulin production in pancreas and regulation of glucagon secretion by glucose in alpha cells; however such data require additional evidences. May play a role in regulation of protein translation by phosphorylating EEF1A1, leading to increase translation efficiency. May also participate in respiratory regulation.

Cellular Location

Cytoplasm. Nucleus. Note=Localizes in the nucleus of testis germ cells and in the midpiece of sperm tails

Tissue Location

Ubiquitously expressed, with slightly higher expression in brain, prostate and testis. Reduced expression was found in placenta. Present in germ cells of testis and in the midpiece of sperm tails (at protein level)

PASK Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PASK Antibody (N-term) Blocking Peptide - Images**PASK Antibody (N-term) Blocking Peptide - Background**

PAS domains regulate the function of many intracellular signaling pathways in response to both extrinsic and intrinsic stimuli. PAS kinase, or PASK, is an evolutionarily conserved protein present in yeast, flies, and mammals.[supplied by OMIM].

PASK Antibody (N-term) Blocking Peptide - References

da Silva Xavier, G., et al., Proc. Natl. Acad. Sci. U.S.A. 101(22):8319-8324 (2004).Hofer, T., et al., Biochem. Biophys. Res. Commun. 288(4):757-764 (2001).Rutter, J., et al., Proc. Natl. Acad. Sci. U.S.A. 98(16):8991-8996 (2001).