

PBK Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP7164a**Specification****PBK Antibody (N-term) Blocking Peptide -
Product Information**Primary Accession [Q96KB5](#)**PBK Antibody (N-term) Blocking Peptide -
Additional Information****Gene ID** 55872**Other Names**

Lymphokine-activated killer
T-cell-originated protein kinase,
Cancer/testis antigen 84, CT84, MAPKK-like
protein kinase, Nori-3, PDZ-binding kinase,
Spermatogenesis-related protein kinase,
SPK, T-LAK cell-originated protein kinase,
PBK, TOPK

Target/Specificity

The synthetic peptide sequence used to
generate the antibody [AP7164a](/product/products/AP7164a) was
selected from the N-term region of human
PBK. 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.

PBK Antibody (N-term) Blocking Peptide - Protein**PBK Antibody (N-term) Blocking Peptide -
Background**

The protein encoded by this gene is a
serine/threonine kinase related to the dual
specific mitogen-activated protein kinase
kinase (MAPKK) family. Evidence suggests that
mitotic phosphorylation is required for its
catalytic activity. This mitotic kinase may be
involved in the activation of lymphoid cells and
support testicular functions, with a suggested
role in the process of spermatogenesis.

**PBK Antibody (N-term) Blocking Peptide -
References**

Nandi, A., et al., Blood Cells Mol. Dis.
32(1):240-245 (2004). Simons-Evelyn, M., et al.,
Blood Cells Mol. Dis. 27(5):825-829
(2001). Zhao, S., et al., Int. J. Biochem. Cell Biol.
33(6):631-636 (2001). Abe, Y., et al., J. Biol.
Chem. 275(28):21525-21531 (2000). Gaudet,
S., et al., Proc. Natl. Acad. Sci. U.S.A.
97(10):5167-5172 (2000).

Information**Name** PBK**Synonyms** TOPK**Function**

Phosphorylates MAP kinase p38. Seems to be active only in mitosis. May also play a role in the activation of lymphoid cells. When phosphorylated, forms a complex with TP53, leading to TP53 destabilization and attenuation of G2/M checkpoint during doxorubicin- induced DNA damage.

Tissue Location

Expressed in the testis and placenta. In the testis, restrictedly expressed in outer cell layer of seminiferous tubules.

PBK Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)