

Phospho-PBK(Y74) Antibody Blocking peptide
Synthetic peptide
Catalog # BP3577a**Specification**

Phospho-PBK(Y74) Antibody Blocking peptide - Product InformationPrimary Accession [Q96KB5](#)**Phospho-PBK(Y74) Antibody 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 [AP3577a](/products/AP3577a) was selected from the region of human Phospho-PBK-pY74. 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.

Phospho-PBK(Y74) Antibody Blocking peptide - Protein 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.

Phospho-PBK(Y74) Antibody Blocking peptide - Protocols

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

- [Blocking Peptides](#)

Phospho-PBK(Y74) Antibody Blocking peptide - Images

Phospho-PBK(Y74) Antibody Blocking peptide - Background

PBK 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.

Phospho-PBK(Y74) Antibody 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).