

**PBK Antibody (Y74) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7164f****Specification**

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**PBK Antibody (Y74) Blocking Peptide - Product Information**

Primary Accession [Q96KB5](#)

**PBK Antibody (Y74) 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 [AP7164f](/products/AP7164f) was selected from the Y74 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 (Y74) 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.

### **PBK Antibody (Y74) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **PBK Antibody (Y74) Blocking Peptide - Images**

### **PBK Antibody (Y74) 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.

### **PBK Antibody (Y74) 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).