10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

PBK Antibody (Y74) Blocking Peptide

Synthetic peptide

Catalog # BP7164f

Specification

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 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

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).

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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