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PBK Antibody (C-term C300)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7164e

Specification

PBK Antibody (C-term C300) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q96KB5
Other Accession	Q9JJ78
Reactivity	**Human**
Predicted	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**36085**
Antigen Region	**286-317**

PBK Antibody (C-term C300) - 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
This PBK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 286-317 amino acids from the C-terminal region of human PBK.

Dilution
WB~~1:1000
IHC-P~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
PBK Antibody (C-term C300) is for research use only and not for use in diagnostic or therapeutic procedures.

PBK Antibody (C-term C300) - Protein Information

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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.

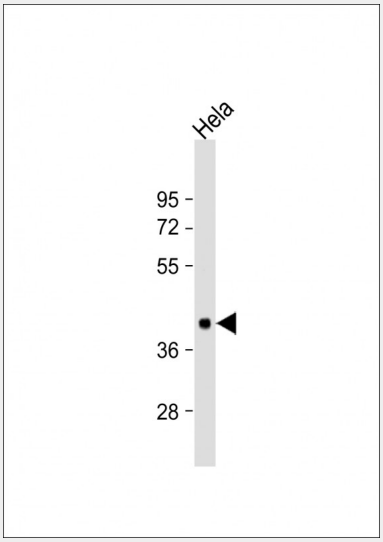
Tissue Location
Expressed in the testis and placenta. In the testis, restrictedly expressed in outer cell layer of seminiferous tubules.

PBK Antibody (C-term C300) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PBK Antibody (C-term C300) - Images



Anti-PBK/TOPK Antibody (C-term) at 1:1000 dilution + Hela whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 36 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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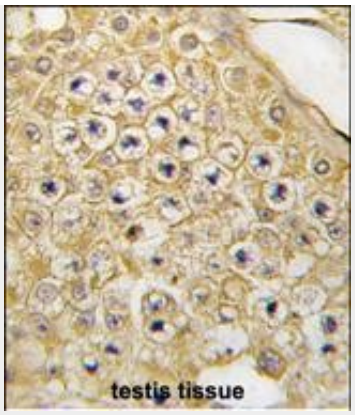

Formalin-fixed and paraffin-embedded human testis tissue reacted with PBK Antibody (C-term C300) (Cat.#AP7164e), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

PBK Antibody (C-term C300) - 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 (C-term C300) - References

Nandi, A., et al., Blood Cells Mol. Dis. 32(1):240-245 (2004).
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Abe, Y., et al., J. Biol. Chem. 275(28):21525-21531 (2000).
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