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PBK Antibody (C-term C300)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7164e

Product Information

Application	IHC-P, WB, E
Primary Accession	Q96KB5
Other Accession	Q9JJ78
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB10537
Calculated MW	36085
Antigen Region	286-317

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	IHC-P~~1:100~500 WB~~1:1000 E~~Use at an assay dependent concentration.
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.

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.

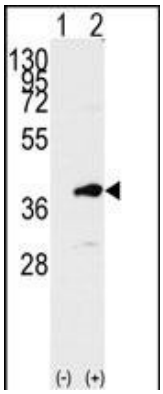
Background

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.

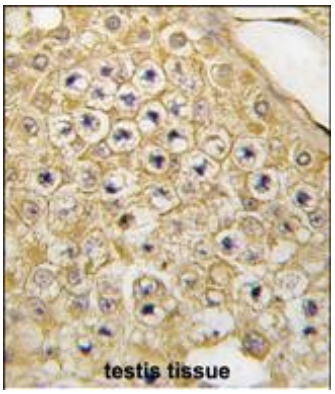
References

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Images



Western blot analysis of PBK (arrow) using rabbit polyclonal PBK Antibody (C-term C300) (Cat.#AP7164e).293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PBK gene (Lane 2) (Origene Technologies).



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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.