10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Phospho-PBK/TOPK (Thr9) Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3911a

Product Information

Application	WB, E
Primary Accession	Q96KB5
Reactivity	Human
Predicted	Rat, Canine
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB56570
Calculated MW	36085

Additional Information

Gene ID	55872
Other Names	Lymphokine-activated killer T-cell-originated protein kinase, 2.7.12.2, 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 Phospho-PBK/TOPK (Thr9) antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 2-35 amino acids from the human Phospho-PBK/TOPK.
Dilution	WB~~1:4000 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	Phospho-PBK/TOPK (Thr9) Antibody 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.

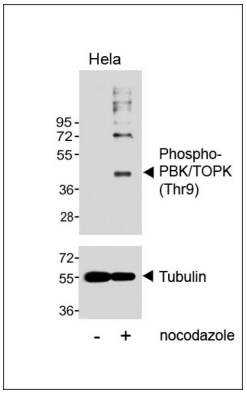
Background

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.

References

Abe Y.,et al.J. Biol. Chem. 275:21525-21531(2000).
Gaudet S.,et al.Proc. Natl. Acad. Sci. U.S.A. 97:5167-5172(2000).
Zhao S.,et al.Int. J. Biochem. Cell Biol. 33:631-636(2001).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Nusbaum C.,et al.Nature 439:331-335(2006).

Images



Western blot analysis of lysates from Hela cell line, untreated or treated with Nocodazole, 100ng/ml, using Phospho-PBK/TOPK (Thr9) Antibody (upper) or Tubulin (lower).

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