

PBK (Phospho Thr9) Rabbit pAb

CatalogNo: YP0330 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 36kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000**IHC 1:100-1:300****ELISA 1:40000****IF 1:50-200**

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human PBK/TOPK around the phosphorylation site of Thr9. AA range:1-50

Specificity

Phospho-PBK (T9) Polyclonal Antibody detects endogenous levels of PBK protein only when phosphorylated at T9. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):FKtPS

| Target Information

Gene name PBK

Protein Name Lymphokine-activated killer T-cell-originated protein kinase

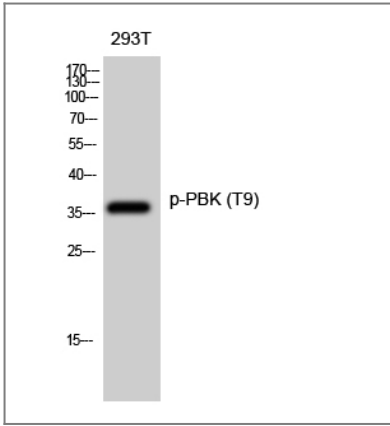
Organism	Gene ID	UniProt ID
Human	55872 ;	Q96KB5 ;
Mouse		Q9JJ78 ;

Cellular Localization nucleus,

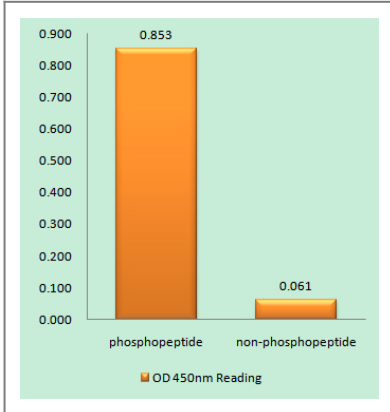
Tissue specificity Expressed in the testis and placenta. In the testis, restrictedly expressed in outer cell layer of seminiferous tubules.

Function Catalytic activity:ATP + a protein = ADP + a phosphoprotein.,enzyme regulation:Activated by phosphorylation.,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.,PTM:Phosphorylated; in a cell-cycle dependent manner at mitosis.,similarity:Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. MAP kinase kinase subfamily.,similarity:Contains 1 protein kinase domain.,subunit:Interacts with DLG1 and TP53.,tissue specificity:Expressed in the testis and placenta. In the testis, restrictedly expressed in outer cell layer of seminiferous tubules.,

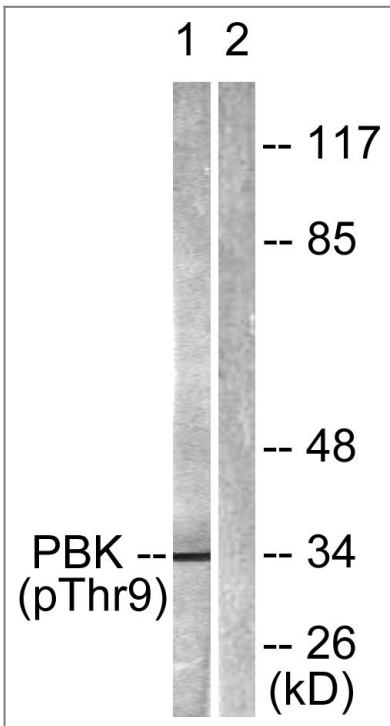
| Validation Data



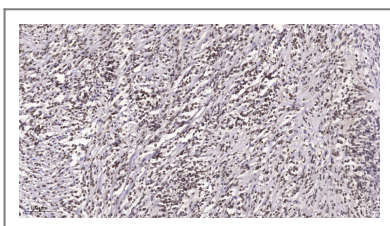
Western Blot analysis of 293T cells using Phospho-PBK (T9) Polyclonal Antibody diluted at 1:500



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using PBK/TOPK (Phospho-Thr9) Antibody



Western blot analysis of lysates from K562 cells treated with UV 30', using PBK/TOPK (Phospho-Thr9) Antibody. The lane on the right is blocked with the phospho peptide.



Immunohistochemical analysis of paraffin-embedded human Small intestinal stromal tumor. 1, Tris-EDTA, pH9.0 was used for antigen retrieval. 2 Antibody was diluted at 1:200 (4° overnight). 3, Secondary antibody was diluted at 1:200 (room temperature, 45min).

| Contact information

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product information:
**PBK (Phospho Thr9)
Rabbit pAb**

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