
Product Name: KD-Validated Phospho-PBK/TOPK (Thr9) Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01169

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 36.1kDa

Antigen Information

Gene Name	PBK PBK; PDZ Binding Kinase; TOPK; CT84; SPK; T-LAK Cell-Originated Protein Kinase; Cancer/Testis Antigen 84; Nori-3; Lymphokine-Activated Killer T-Cell-Originated Protein
Alternative Names	Kinase; Spermatogenesis-Related Protein Kinase; MAPKK-Like Protein Kinase; FLJ14385; Serine/Threonine Protein Kinase; Epididymis Luminal Protein 164; PDZ-Binding Kinase; EC 2.7.12.2; HEL164; NORI-3
Gene ID	55872.0
SwissProt ID	Q96KB5
Immunogen	A synthesized peptide derived from human Phospho-PBK/TOPK (Thr9)

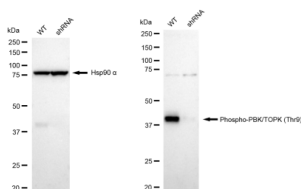
Background

This gene encodes a serine/threonine protein kinase related to the dual specific mitogen-activated protein kinase kinase (MAPKK) family. Evidence suggests that mitotic phosphorylation is required for its catalytic activity. The encoded protein may be involved in the activation of lymphoid cells and support testicular functions, with a suggested role in the process of spermatogenesis. Overexpression of this gene has been implicated in tumorigenesis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

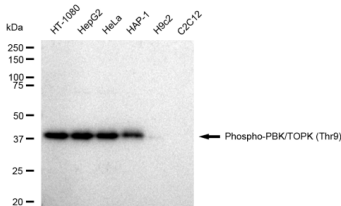
Research Area

Cell Biology, Epigenetics and Nuclear Signaling, Signal Transduction, Cancer

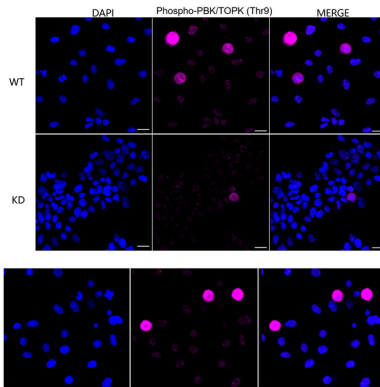
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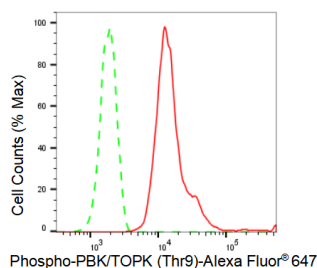
Western blotting analysis using Phospho-PBK/TOPK (Thr9) antibody (KVA01169). Phospho-PBK/TOPK (Thr9) expression in wild type (WT) and Phospho-PBK/TOPK (Thr9) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Phospho-PBK/TOPK (Thr9) antibody (KVA01169, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Phospho-PBK/TOPK (Thr9) antibody (KVA01169). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Phospho-PBK/TOPK (Thr9) antibody (KVA01169, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using Phospho-PBK/TOPK (Thr9) antibody (KVA01169, 1:1,000), Top panel: wild-type (WT); Bottom panel: Phospho-PBK/TOPK (Thr9) shRNA knockdown (KD). Nuclei were stained blue with DAPI; Phospho-PBK/TOPK (Thr9) was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of HeLa cells with Phospho-PBK/TOPK (Thr9) antibody (KVA01169, 1:1,000). Nuclei were stained blue with DAPI; Phospho-PBK/TOPK (Thr9) was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.

Flow cytometric analysis of Phospho-PBK/TOPK (Thr9) expression in HepG2 cells using Phospho-PBK/TOPK (Thr9) antibody (KVA01169, 1:2,000). Green, isotype control; red, Phospho-PBK/TOPK (Thr9).

