



## Rabbit Anti-PBK antibody

SL3523R

<b>Product Name:</b>	PBK
<b>Chinese Name:</b>	PDZ连接激酶/T-LAK细胞源蛋白激酶抗体
<b>Alias:</b>	TOPK; Cancer/testis antigen 84; CT84; FLJ14385; Lymphokine activated killer T cell originated protein kinase; MAPKK like protein kinase; PDZ-binding-kinase/T-LAK cell-originated protein kinase; Nori 3; Nori3; PDZ binding kinase; Serine/threonine protein kinase; Spermatogenesis related protein kinase; SPK; T LAK cell originated protein kinase; TOPK.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Cow,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	36kDa
<b>Cellular localization:</b>	cytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human PBK:251-322/322
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	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]

**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.

**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.

**Post-translational modifications:**

Phosphorylated; in a cell-cycle dependent manner at mitosis.

**Similarity:**

Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase subfamily.  
Contains 1 protein kinase domain.

**SWISS:**

Q96KB5

**Gene ID:**

55872

**Database links:**

[Entrez Gene: 55872](#) Human

[Entrez Gene: 52033](#) Mouse

[Entrez Gene: 290326](#) Rat

[Omim: 611210](#) Human

[SwissProt: Q96KB5](#) Human

[SwissProt: Q9JJ78](#) Mouse

[SwissProt: A1L1J7](#) Rat

[Unigene: 104741](#) Human

[Unigene: 24337](#) Mouse

**Important Note:**

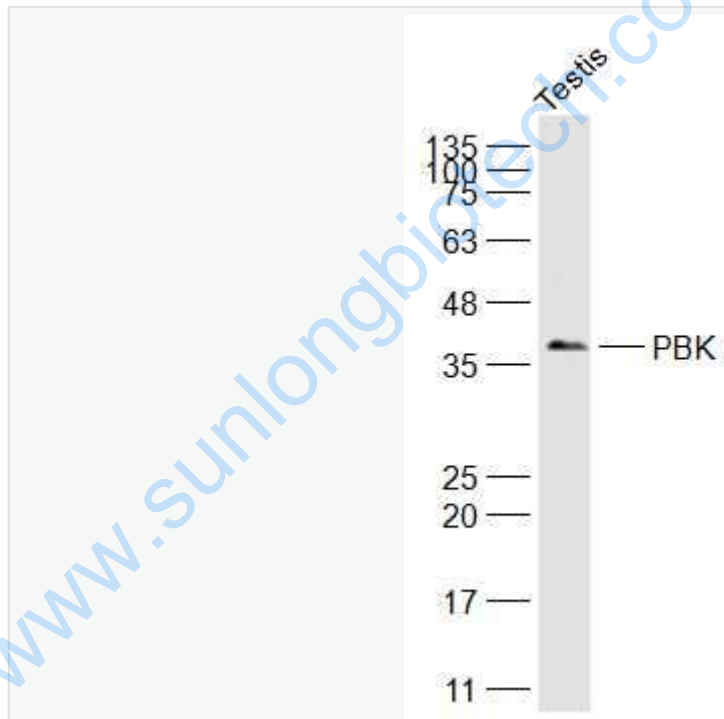
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PBK/TOPK是一种新近发现的丝-

苏氨酸激酶,属于MAPKK分子家族成员,具有参与调控恶性Tumour细胞的增殖和周期变化,促进Tumour细胞转化,

并且通过MAPKK信号通路参与调控细胞DNA损伤修复.

Picture:



Sample:

Testis (Mouse) Lysate at 40 ug

Primary: Anti-PBK (SL3523R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 36 kD

	Observed band size: 37 kD
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