

## Product datasheet

# Anti-PBK antibody ab59327

[2 Images](#)

### Overview

<b>Product name</b>	Anti-PBK antibody
<b>Description</b>	Rabbit polyclonal to PBK
<b>Specificity</b>	Detects endogenous levels of total PBK/TOPK protein.
<b>Tested applications</b>	<b>Suitable for:</b> WB, ELISA, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse
<b>Immunogen</b>	Synthetic non-phosphopeptide derived from human PBK/TOPK around the phosphorylation site of threonine 9 (F-K-T <sup>P</sup> -P-S).
<b>Positive control</b>	Human brain tissue

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), 150mM Sodium chloride, pH 7.4
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

Our [Abpromise guarantee](#) covers the use of **ab59327** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

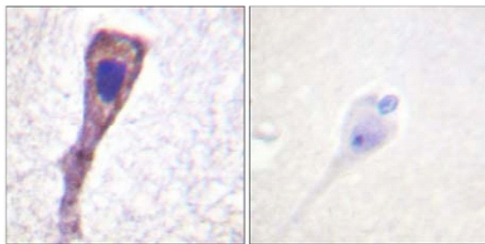
Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 36 kDa (predicted molecular weight: 36 kDa).
ELISA		1/5000.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration.

## Target

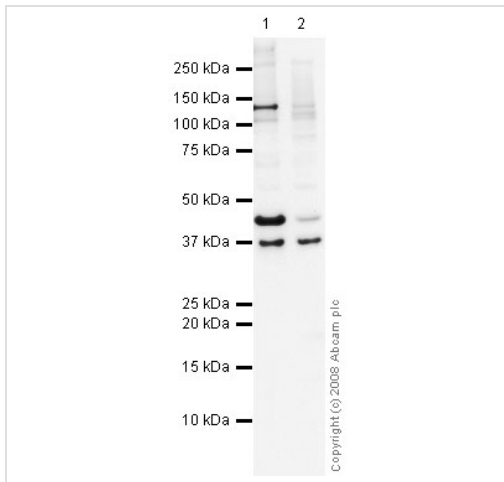
<b>Function</b>	Phosphorylates MAP kinase p38. Seems to be active only in mitosis. May also play a role in the activation of lymphoid cells. When phosphorylated, forms a complex with TP53, leading to TP53 destabilization and attenuation of G2/M checkpoint during doxorubicin-induced DNA damage.
<b>Tissue specificity</b>	Expressed in the testis and placenta. In the testis, restrictedly expressed in outer cell layer of seminiferous tubules.
<b>Sequence similarities</b>	Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. MAP kinase kinase subfamily. Contains 1 protein kinase domain.
<b>Post-translational modifications</b>	Phosphorylated; in a cell-cycle dependent manner at mitosis.

## Images



Ab59327 at 1/50-1/100 dilution staining human brain tissue without (left) and with (right) immunizing peptide; paraffin embedded.

Immunohistochemistry (Paraffin-embedded sections)  
- PBK antibody (ab59327)



Western blot - PBK antibody (ab59327)

**All lanes :** Anti-PBK antibody (ab59327) at 1  $\mu$ g/ml

**Lane 1 :** HeLa (Human epithelial carcinoma cell line) Nuclear Lysate

**Lane 2 :** SW480 (Human colon adenocarcinoma cell line) Whole Cell Lysate

Lysates/proteins at 10  $\mu$ g per lane.

### Secondary

Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

**Predicted band size :** 36 kDa

**Observed band size :** 36 kDa

**Additional bands at :** 140 kDa, 42 kDa. We are unsure as to the identity of these extra bands.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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