

## Product datasheet for **AP06557PU-M**

### PBK Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500-1/1000. <b>Immunohistochemistry on paraffin sections</b> 1/50-1/200.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to the N-terminal of Human PBK.
Specificity:	This antibody detects endogenous levels of PBK/TOPK protein. (region surrounding Ile4)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 36 kDa
Gene Name:	PDZ binding kinase
Database Link:	<a href="#">Entrez Gene 55872 Human</a> <a href="#">Q96KB5</a>

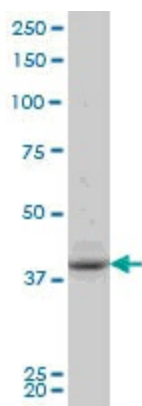
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**Background:**

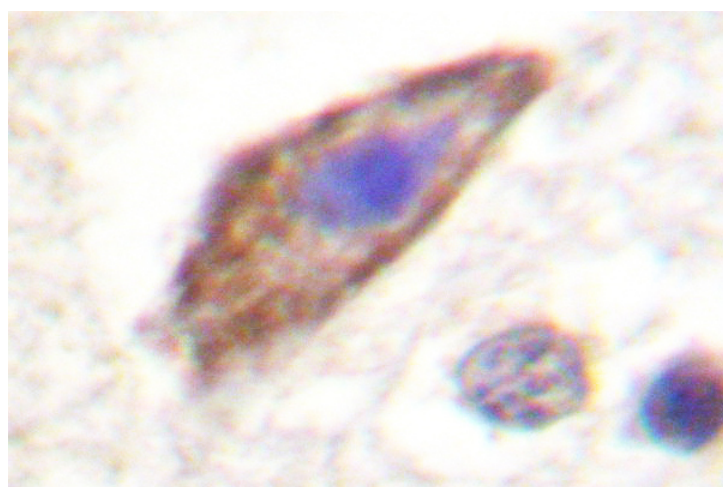
PBK (PDZ binding kinase) belongs to the serine/threonine protein kinase family. It is related to the dual specific mitogen-activated protein kinase kinase (MAPKK) family and phosphorylates MAP kinase p38. It is active only in mitosis. When phosphorylated it forms a complex with TP53, leading to TP53 destabilization and attenuation of G2/M checkpoint during doxorubicin-induced DNA damage. It makes a kinase-substrate complex with cdk1/cyclin B1 and PRC1 on microtubules during mitosis, enhances the cdk1/cyclin B1-dependent phosphorylation of PRC1 and thereby strongly promotes cytokinesis. It may play a role in the activation of lymphoid cells.

**Synonyms:**

CT84, Nori-3, PDZ-binding kinase, SPK

**Product images:**


Western blot (WB) analysis of PBK/TOPK antibody in extracts from COS7 cells treated with Nocodazole 1ug/ml 16h.



Immunohistochemistry (IHC) analysis of PBK/TOPK antibody in paraffin-embedded human breast tissue.