

Datasheet for ABIN272056  
**anti-PBK antibody**



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1 Image

## Overview

|              |                                                                                                              |
|--------------|--------------------------------------------------------------------------------------------------------------|
| Quantity:    | 0.1 mg                                                                                                       |
| Target:      | PBK                                                                                                          |
| Reactivity:  | Human, Mouse                                                                                                 |
| Host:        | Rabbit                                                                                                       |
| Clonality:   | Polyclonal                                                                                                   |
| Conjugate:   | This PBK antibody is un-conjugated                                                                           |
| Application: | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA) |

## Product Details

|                             |                                                                                                                      |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------|
| Specificity:                | This antibody detects endogenous levels of PBK/TOPK protein. (region surrounding Ile4)                               |
| Cross-Reactivity (Details): | Species reactivity (tested):Human.                                                                                   |
| Purification:               | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen |
| Purity:                     | > 95 % pure by SDS-PAGE                                                                                              |

## Target Details

|                   |                                                                                                                                                                                              |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | PBK                                                                                                                                                                                          |
| Alternative Name: | PBK / TOPK ( <a href="#">PBK Products</a> )                                                                                                                                                  |
| 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 |

## Target Details

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, Cancer/testis antigen 84, Lymphokine-activated killer T-cell-originated protein kinase, MAPKK-like protein kinase, Nori-3, PDZ-binding kinase, SPK, T-LAK cell-originated protein kinase

Molecular Weight: approx. 36 kDa

Gene ID: 55872

NCBI Accession: [NP\\_060962](#)

UniProt: [Q96KB5](#)

## Application Details

Application Notes: ELISA: 1: 21000approx. 1: 5000. WB: 1: 500approx. 1: 1000. IHC: 1: 50approx. 1: 200.  
Other applications not tested.  
Optimal dilutions are dependent on conditions and should bedetermined by the user.

Restrictions: For Research Use only

## Handling

Concentration: 1,0 mg/mL

Buffer: Phosphate buffered saline (PBS), pH 7.2., 0.05 % sodium azide

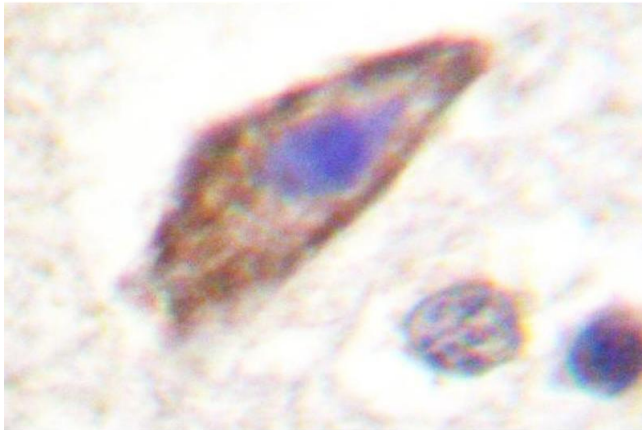
Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: DO NOT FREEZE!

Storage: 4 °C

Storage Comment: Store the antibody undiluted at 2-8 °C.



**Image 1.**