

For Research Use Only

# PBK/SPK Recombinant antibody, PBS Only (Capture)

Catalog Number: 84970-1-PBS



## Basic Information

<b>Catalog Number:</b> 84970-1-PBS	<b>GenBank Accession Number:</b> BC015191	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 55872	<b>CloneNo.:</b> 242545A11
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q96KB5	
<b>Isotype:</b> IgG	<b>Full Name:</b> PDZ binding kinase	
<b>Immunogen Catalog Number:</b> AG9033	<b>Calculated MW:</b> 322 aa, 36 kDa	
	<b>Observed MW:</b> 36-40 kDa	

## Applications

**Tested Applications:**  
WB, IF/ICC, FC (Intra), Cytometric bead array, Sandwich ELISA, Indirect ELISA, Sample test

**Species Specificity:**  
human, mouse, rat

## Product Information

84970-1-PBS targets PBK/SPK as part of a matched antibody pair:

MP01693-1: 84970-1-PBS capture and 84970-4-PBS detection (validated in Cytometric bead array, Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## Background Information

PBK(PDZ-binding kinase) is also named as TOPK, CT84, Nori-3, SPK and belongs to the MAP kinase kinase subfamily. PBK may have a role in the regulation of cellular proliferation and progression of the cell cycle. It has a characteristic cdc2cyclin B phosphorylation site(SyT-P-X-KyR) at its N terminus, which is conserved across species, and it is phosphorylated in a cell cycle-dependent manner at mitosis, and that this phosphorylation is required for its activation(PMID:10779557).

## Storage

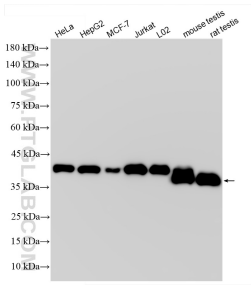
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

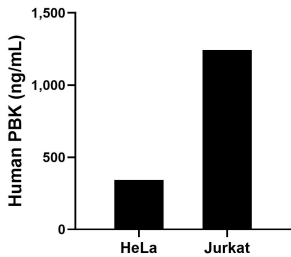
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

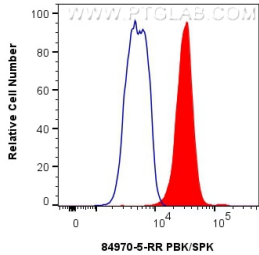
Selected Validation Data



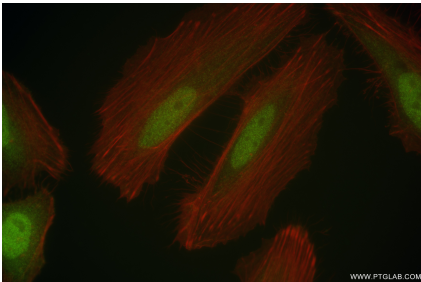
Various lysates were subjected to SDS PAGE followed by western blot with 84970-1-RR (PBK antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84970-1-PBS in a different storage buffer formulation.



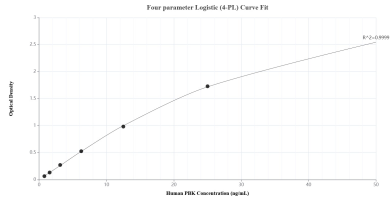
The mean PBK concentration was determined to be 342.86 ng/mL in HeLa cell extract based on a 1.30 mg/mL extract load and 1,243.51 ng/mL in Jurkat cell extract based on a 2.00 mg/mL extract load.



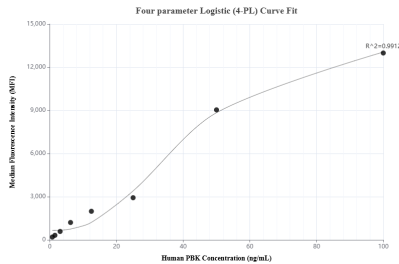
1x10<sup>6</sup> HepG2 cells were intracellularly stained with 0.25 ug PBK/SPK Recombinant antibody (84970-1-RR, Clone:242545A11) and Coralite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 84970-1-PBS in a



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using PBK/SPK antibody (84970-1-RR, Clone: 242545A11 ) at dilution of 1:1000 and Coralite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 84970-1-PBS in a different storage buffer formulation.



Sandwich ELISA standard curve of MP01693-1, Human PBK Recombinant Matched Antibody Pair - PBS only. 84970-1-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag9033. 84970-4-PBS was HRP conjugated as the detection antibody. Range: 0.781-50 ng/mL



Cytometric bead array standard curve of MP01693-1, PBK Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84970-1-PBS. Detection antibody: 84970-4-PBS. Standard: Ag9033. Range: 0.781-100 ng/mL