

For Research Use Only

# PLK4 Polyclonal antibody

Catalog Number: 12952-1-AP

Featured Product

24 Publications



## Basic Information

### Catalog Number:

12952-1-AP

### Size:

150ul, Concentration: 400 µg/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3605

### GenBank Accession Number:

BC036023

### GeneID (NCBI):

10733

### UNIPROT ID:

O00444

### Full Name:

polo-like kinase 4 (Drosophila)

### Calculated MW:

970 aa, 109 kDa

### Observed MW:

105-112 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse

### Cited Species:

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : mouse lung tissue, MCF-7 cells, A549 cells

IHC : mouse testis tissue, human lung cancer tissue, human cervical cancer tissue

## Background Information

PLK4(Polo-like kinase 4) is also named SAK, STK18 and belongs to the Ser/Thr protein kinase family. It plays a central role in centriole duplication and is a kinase implicated in tumor development, which is an upstream regulator of canonical biogenesis necessary for centriole formation. It has 3 isoforms produced by alternative splicing.

## Notable Publications

Author	Pubmed ID	Journal	Application
Nanako Hamada	36067731	Dev Neurosci	WB,IHC,IF
Yarong Zheng	33416109	Int J Mol Med	WB,IF
Yongqu Lu	33134313	Front Mol Biosci	IHC

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

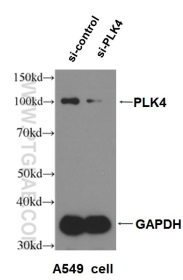
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

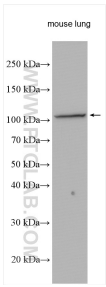
E: proteintech@ptglab.com  
W: ptglab.com

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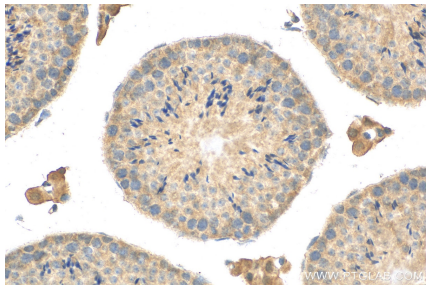
Selected Validation Data



WB result of PLK4 antibody (12952-1-AP, 1:2000) with si-control and si-PLK4 transfected A549 cells.



mouse lung tissue were subjected to SDS PAGE followed by western blot with 12952-1-AP (PLK4 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 12952-1-AP (PLK4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).