

For Research Use Only

# PLK4 Polyclonal antibody

Catalog Number: 12952-1-AP

Featured Product

23 Publications



## Basic Information

**Catalog Number:**

12952-1-AP

**Size:**

400 µg/ml

**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:**

IHC, WB, ELISA

**Cited Applications:**

IF, IHC, WB

**Species Specificity:**

human, mouse

**Cited Species:**

human, rat, mouse

**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

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

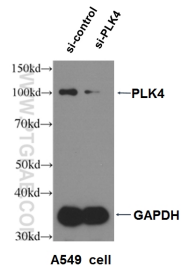
T: 4006900926

E: Proteintech-CN@ptglab.com

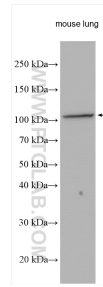
W: ptgcn.com

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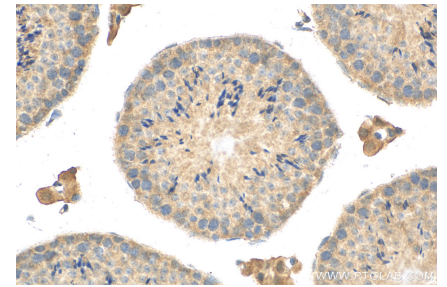
## Selected Validation Data



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).