

For Research Use Only

# PLEK Polyclonal antibody

Catalog Number: 12506-1-AP

Featured Product

5 Publications



## Basic Information

<b>Catalog Number:</b> 12506-1-AP	<b>GenBank Accession Number:</b> BC018549	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 500 ug/ml by Nanodrop and 327 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 5341	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:20-1:200
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P08567	
<b>Isotype:</b> IgG	<b>Full Name:</b> pleckstrin	
<b>Immunogen Catalog Number:</b> AG3187	<b>Calculated MW:</b> 350 aa, 40 kDa	
	<b>Observed MW:</b> 40-47 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b> WB : U-937 cells, rat spleen tissue IHC : human lung cancer tissue,
<b>Cited Applications:</b> WB, IHC	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

PLEK (pleckstrin; also known as p47) was originally identified as the major PKC substrate in platelets and later is found to be expressed in all cells of the hemopoietic system. Through two pleckstrin homology (PH) domains at its N and C termini, PLEK may interact with various protein and/or lipid ligands and serve as an intracellular adaptor/targeting protein. Predominantly cytosolic in unstimulated cells, PLEK would undergo transient redistribution to phagosomal membrane in response to stimuli. PLEK has been found to be hyperphosphorylated in diabetic mononuclear phagocytes and promote proinflammatory cytokine secretion in diabetes. (10477609, 17579087)

## Notable Publications

Author	Pubmed ID	Journal	Application
Jing Guo	31849582	Front Neurosci	WB
Jing Lin	34837956	Mol Med	WB
Tian Luo	29643078	mSphere	WB

## Storage

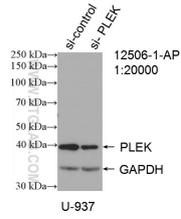
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

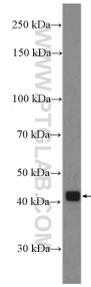
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

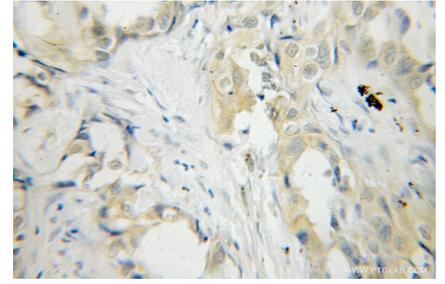
## Selected Validation Data



WB result of PLEK antibody (12506-1-AP; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PLEK transfected U-937 cells.



U-937 cells were subjected to SDS PAGE followed by western blot with 12506-1-AP (PLEK Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer using 12506-1-AP (PLEK antibody) at dilution of 1:50 (under 40x lens).