

For Research Use Only

# Phospho-STK11/LKB1 (Thr189) Polyclonal antibody



Catalog Number: 28965-1-AP

1 Publications

## Basic Information

<b>Catalog Number:</b> 28965-1-AP	<b>GenBank Accession Number:</b> BC007981	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 100ul , Concentration: 300 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6794	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Source:</b> Rabbit	<b>Full Name:</b> serine/threonine kinase 11	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 49 kDa	
	<b>Observed MW:</b> 50-55 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : Calyculin A treated PC-3 cells, UV treated NIH/3T3 cells
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> Human, mouse	
<b>Cited Species:</b> human	

## Background Information

Liver kinase 1 (LKB1 also known as STK11) is a tumor suppressor gene that is inactivated by bi-allelic mutation in non-small cell lung cancer (NSCLC), malignant melanoma and cervical cancer. LKB1 protein has a central kinase domain, two N-terminal nuclear leading sequences, and a C-terminal regulatory motif. The protein also contains a CAAX motif at C-terminal end and can be farnesylated. The formation of an LKB1/Strad/MO25 complex is essential for LKB1's kinase activity, and there are at least 13 known substrates of LKB1, which includes AMPKs, BRSKs, and MARKs. LKB1 is the major kinase that phosphorylates the AMPK activation loop in conditions of energy stress. (PMID: 25679014, PMID: 19629071)

## Notable Publications

Author	Pubmed ID	Journal	Application
Yuhao Wang	35406631	Cells	WB

## Storage

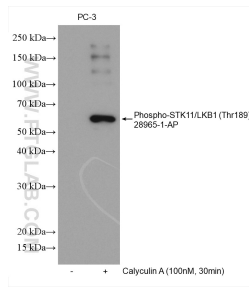
**Storage:**  
Store at -20°C.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

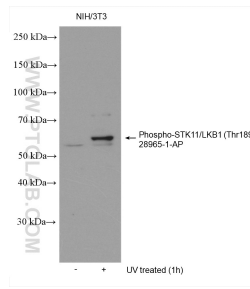
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

## Selected Validation Data



Non-treated PC-3 and Calyculin A treated PC-3 cells were subjected to SDS PAGE followed by western blot with 28965-1-AP (Phospho-STK11/LKB1 (Thr189) antibody) at dilution of 1:10000 incubated at room temperature for 1 hours.



Non-treated and UV treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 28965-1-AP (Phospho-STK11/LKB1 (Thr189) antibody) at dilution of 1:1000 incubated at 4°C overnight.