

For Research Use Only

# Phospho-ULK1 (Thr468) Polyclonal antibody



Catalog Number: 29006-1-AP

1 Publications

## Basic Information

<b>Catalog Number:</b> 29006-1-AP	<b>GenBank Accession Number:</b> NM_003565	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 100ul , Concentration: 450 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 8408	<b>Recommended Dilutions:</b> WB 1:1000-1:8000
<b>Source:</b> Rabbit	<b>Full Name:</b> unc-51-like kinase 1 (C. elegans)	
<b>Isotype:</b> IgG	<b>Observed MW:</b> 130-140 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : λ phosphatase treated HeLa cells,
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> Human	
<b>Cited Species:</b> rat	

## Background Information

Unc-51-like-kinase 1 (ULK1) is a target of both the mechanistic target of rapamycin (mTOR) and AMP activated protein kinase (AMPK), whose role is to facilitate the initiation of autophagy in response to starvation. ULK1 is phosphorylated on serine 638 and 758 sites by mTOR in nutrient-rich conditions, inhibiting ULK1 activation by disrupting its binding to AMPK. Upon glucose starvation, dissociation of mTOR from ULK1 and phosphorylation by AMPK leads to the activation of ULK1 activity. S467, S556, and T574 are sites responsible for regulating mitochondrial homeostasis during starvation. (PMID: 30517873, PMID: 21258367)

## Notable Publications

Author	Pubmed ID	Journal	Application
Yi Zhou	35934162	Brain Res Bull	WB

## Storage

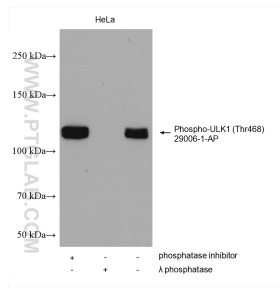
**Storage:**  
Store at -20°C.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

For technical support and original validation data for this product please contact:  
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## Selected Validation Data



Non-treated HeLa, phosphatase inhibitor treated and  $\lambda$  phosphatase treated HeLa cells were subjected to SDS PAGE followed by western blot with 29006-1-AP (Phospho-ULK1 (Thr468) antibody) at dilution of 1:4000 incubated at room temperature for 1 hours.