

For Research Use Only

# Phospho-MEK1 (Thr286) Polyclonal antibody



Catalog Number: 28933-1-AP

## Basic Information

<b>Catalog Number:</b> 28933-1-AP	<b>GenBank Accession Number:</b> BC139729	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 100ul , Concentration: 350 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5604	<b>Recommended Dilutions:</b> WB 1:1000-1:6000
<b>Source:</b> Rabbit	<b>Full Name:</b> mitogen-activated protein kinase kinase 1	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 43 kDa	
	<b>Observed MW:</b> 40-45 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : nocodazole treated HeLa cells,
<b>Species Specificity:</b> Human	

## Background Information

MAP2K1 encodes MAPK1, also known as MEK1. MEK1 variants can enhance MEK1 expression and ERK1 phosphorylation that together lead to continuous activation of MEK/ERK signaling pathway. MEK1 bind directly to ERK2 through a region in the N terminus of MEK. In addition, a proline-rich (PR) regulatory sequence in MEK is also involved in MEK-ERK association and signal propagation. The coupling between MEK1 and ERK2 is enhanced through phosphorylation on S298 in the MEK1 PR region, whereas phosphorylation on MEK1 T292 releases the complex. MEK1 enzymatic activity is regulated by site-specific phosphorylation that can be activated with phosphorylation of Ser217/Ser221 by Raf kinase or suppressed by phosphorylation of Thr286 and Thr292 by CDK1 and CDK5 or Thr292 and Thr386 by ERK1/2. (PMID: 31972311, PMID: 17928366, PMID: 22177953)

## Storage

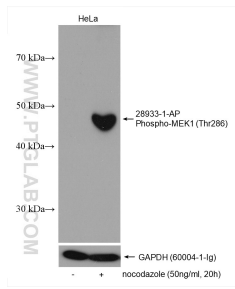
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 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



Non-treated HeLa cells and nocodazole treated HeLa cells were subjected to SDS PAGE followed by western blot with 28933-1-AP (Phospho-MEK1 (Thr286)) antibody at dilution of 1:3000 incubated at room temperature for 1 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.