

Nur für Forschungszwecke

# Phospho-PTEN (Thr382/383) Polyklonaler Antikörper



Katalog-Nr.: 29246-1-AP

1 Publikationen

## Allgemeine Informationen

<b>Katalog-Nr.:</b> 29246-1-AP	<b>GenBank-Zugangsnummer:</b> BC005821	<b>Reinigungsmethode:</b> Antigen-Affinitätsreinigung
<b>Größe:</b> 100ul, Konzentration: 1000 µg/ml von5728 Nanodrop;	<b>GeneID (NCBI):</b> Vollständiger Name: phosphatase and tensin homolog	<b>Empfohlene Verdünnungen:</b> WB 1:2000-1:10000
<b>Wirt:</b> Kaninchen	<b>Berechnete Masse:</b> 47 kDa	
<b>Isotyp:</b> IgG	<b>Beobachtete Masse:</b> 55-70 kDa	

## Anwendungen

<b>Geprüfte Anwendungen:</b> WB, ELISA	<b>Positivkontrollen:</b> WB : NIH/3T3-Zellen, Mit λ-Phosphatase behandelte NIH/3T3-Zellen
<b>In Publikationen genannte Anwendungen:</b> WB	
<b>Getestete Reaktivität:</b> Human, Maus	
<b>Zitierte Arten:</b> Human	

## Hintergrundinformationen

PTEN is one of the most critical tumor suppressors, which functions at different subcellular locations, including the plasma membrane and nucleus. The PTEN protein is located at different subcellular regions-PTEN at the plasma membrane suppresses PI3-kinase signaling in cell growth, whereas PTEN in the nucleus maintains genome integrity. At the plasma membrane, PTEN counteracts PI3 kinase signaling by dephosphorylating the potent second messenger PIP3 to PIP2. The loss of PTEN in cancer cells results in over-activation of AKT and mTOR signaling, leading to excessive stimulation of cell growth and inhibition of cell death. In the nucleus, PTEN functions in DNA repair, genome stability, and cell cycle control through associations with Rad51 and p53. PTEN stability is primarily regulated by phosphorylation of C-terminal tail domains (Thr366, Ser370, Ser380, Thr382, Thr383, and Ser385). The phosphorylation leads to a "closed" state of PTEN and maintains PTEN stability. Dephosphorylation of the C-terminal tail opens the PTEN phosphatase domain, thereby increasing PTEN activity. PTEN protein is of the apparent molecular mass expected for PTEN (55 kDa) and PTENα (70 kDa).(PMID: 33083717, PMID: 20622047, PMID: 24768297)

## Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
C Shu	36306106	J Endocrinol Invest	WB

## Lagerung

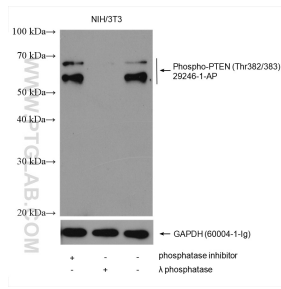
**Lagerungsbedingungen:**  
Bei -20°C lagern.  
**Lagerungspuffer:**  
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.  
Aliquotieren ist nicht notwendig bei -20°C Lagerung

\*\*\* 20ul-Größen enthalten 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.

## Ausgewählte Validierungsdaten



Non-treated NIH/3T3, phosphatase inhibitor treated and  $\lambda$  phosphatase treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 29246-1-AP (Phospho-PTEN (Thr382/383) antibody) at dilution of 1:5000 incubated at room temperature for 1 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.