

À des fins de recherche uniquement

Anticorps Polyclonal de lapin anti-Phospho-PTEN (Thr382/383)



Numéro de catalogue: 29246-1-AP

2 Publications

Informations de base

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| Numéro de catalogue: 29246-1-AP | Numéro d'acquisition GenBank: BC005821 | Méthode de purification: Purification par affinité contre l'antigène |
| Taille: 100ul , Concentration: 1000 µg/ml by Nanodrop; | Identification du gène (NCBI): 5728 | Dilutions recommandées: WB 1:2000-1:10000 |
| Hôte: Lapin | Nom complet: phosphatase and tensin homolog | |
| Isotype: IgG | MW calculé: 47 kDa | |
| | MW observés: 55-70 kDa | |

Applications

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| Applications testées: WB, ELISA | Contrôles positifs: WB : cellules NIH/3T3, cellules NIH/3T3 traitées à la λ phosphatase |
| Demandes citées: WB | |
| Spécificité de l'espèce: Humain, souris | |
| Espèces citées: Humain, souris | |

Informations générales

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)

Publications notables

| Autrice | Pubmed ID | Journal | Application |
|--------------|-----------|---------------------|-------------|
| C Shu | 36306106 | J Endocrinol Invest | WB |
| Fenghua Qian | 37459233 | Cell Rep | WB |

Stockage

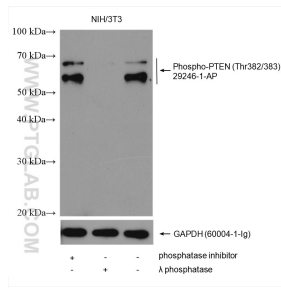
Stockage:
Stocker à -20 °C
Tampon de stockage:
PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3
L'aliquotage n'est pas nécessaire pour le stockage à -20C

*** Les 20ul contiennent 0,1% de 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)
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Données de validation sélectionnées



Non-treated NIH/3T3, phosphatase inhibitor treated and λ 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.