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Phospho-PTEN(S385) Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3800a

Product Information

Application	WB, DB, E
Primary Accession	P60484
Other Accession	Q9PUT6, O08586, NP_000305.3
Reactivity	Human
Predicted	Mouse, Xenopus
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB39440

Additional Information

Other Names	Phosphatidylinositol 3, 5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN, Mutated in multiple advanced cancers 1, Phosphatase and tensin homolog, PTEN, MMAC1, TEP1
Target/Specificity	This PTEN Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S385 of human PTEN.
Dilution	WB~~1:1000 DB~~1:500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Phospho-PTEN(S385) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Background

This gene was identified as a tumor suppressor that is mutated in a large number of cancers at high frequency. The protein encoded this gene is a phosphatidylinositol-3,4,5-trisphosphate 3-phosphatase. It contains a tensin like domain as well as a catalytic domain similar to that of the dual specificity protein tyrosine phosphatases. Unlike most of the protein tyrosine phosphatases, this protein preferentially

dephosphorylates phosphoinositide substrates. It negatively regulates intracellular levels of phosphatidylinositol-3,4,5-trisphosphate in cells and functions as a tumor suppressor by negatively regulating AKT/PKB signaling pathway.

References

Miletic, A.V., et al. J. Exp. Med. 207(11):2407-2420(2010) Kini, V., et al. J. Biol. Chem. 285(43):33082-33091(2010) Shimada, M., et al. Hum. Genet. 128(4):433-441(2010) Molina, J.R., et al. Cancer Res. 70(17):6697-6703(2010) Iliopoulos, D., et al. Mol. Cell 39(4):493-506(2010)