

PTEN (Acetyl Lys402) Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP07468
Host	Rabbit
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	Synthesized acetyl-peptide derived from the human PTEN around the acetylation site of K402.
Mol wt	47166
Species reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Recommended application	WB, ELISA
Concentration	1 mg/ml
Full name	PTEN (Acetyl Lys402) Antibody
Synonyms	PTEN; MMAC1; TEP1; Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN; Mutated in multiple advanced cancers 1; Phosphatase and tensin homolog

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

PTEN was identified as a tumor suppressor that is mutated in a large number of cancers at high frequency. The protein encoded by PTEN 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, phosphatase and tensin homolog 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. The use of a non-canonical (CUG) upstream initiation site produces a longer isoform that initiates translation with a leucine, and is thought to be preferentially associated with the mitochondrial inner membrane. This longer isoform may help regulate energy metabolism in the mitochondria. A pseudogene of PTEN is found on chromosome 9. Alternative splicing and the use of multiple translation start codons results in multiple transcript variants encoding different isoforms.

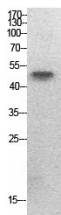
Recommended Dilution

WB: 1: 500 - 1: 2000

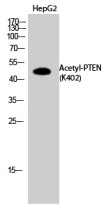
ELISA: 1: 20000

Not yet tested in other applications.

Images



Western Blot analysis of HepG2 cells using Acetyl-PTEN (K402) Polyclonal Antibody. Secondary antibody was diluted at 1:20000



Western Blot analysis of HepG2 cells using Acetyl-PTEN (K402) Polyclonal Antibody. Secondary antibody was diluted at 1:20000

Storage

-20°C for one year

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