Recombinant Phospho-PTEN (Ser380) Monoclonal Antibody

catalog number: **AN300147L**

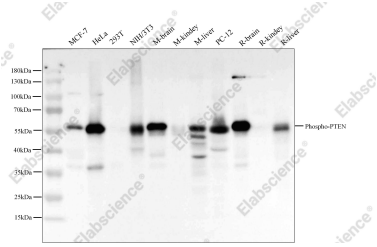
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human;Mouse;Rat
Immunogen	A synthetic phosphopeptide corresponding to residues around Ser380 of the Human Phospho-PTEN
Host	Rabbit
Isotype	Rabbit IgG
Clone	C130107
Purification	Protein A
Buffer	0.2 μm filtered solution in PBS

Applications	Recommended Dilution
WB:	1:1000

Data



Western blot analysis of MCF-7,HeLa, 293T,NIH/3T3,Mouse brain,Mouse kindey,Mouse liver,PC-12,Rat brain,Rat kidney and Rat liver cell lysates using Phospho-PTEN (Ser380) Antibody (AN300147L) at a dilution of 1:1000.

Observed-MW:54 kDa

Calculated-MW:47 kDa

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

Background

This gene was identified as a tumor suppressor that is mutated in a large number of cancers at high frequency. The protein encoded by 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. 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 this gene is found on chromosome 9. Alternative splicing and the use of multiple translation start codons results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Feb 2015]

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