[KO Validated] PTEN Rabbit mAb

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Catalog No.: A19104 KO Validated Recombinant

6 Publications

Basic Information

Observed MW

54kDa

Calculated MW

47kDa

Category

Primary antibody

Applications

ELISA,WB,IF/ICC,IP

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC2643

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-3,4,5trisphosphate 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-3,4,5trisphosphate 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.

Recommended Dilutions

WB 1:500 - 1:1000

1:50 - 1:200 IF/ICC

0.5μg-4μg antibody for ΙP 200µg-400µg extracts of

whole cells

Immunogen Information

Gene ID Swiss Prot 5728 P60484

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-403 of human PTEN (P60484).

Synonyms

BZS; DEC; CWS1; GLM2; MHAM; TEP1; MMAC1; PTEN1; 10q23del; PTENbeta; EN

Contact

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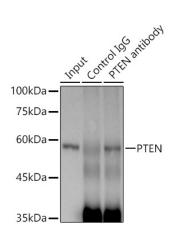
Product Information

Source Isotype **Purification** Rabbit IgG Affinity purification

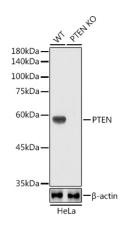
Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.



Immunoprecipitation analysis of 300 μ g extracts of NIH/3T3 cells using 3 μ g PTEN antibody (A19104). Western blot was performed from the immunoprecipitate using PTEN antibody (A19104) at a dilution of 1:1000.



Western blot analysis of lysates from wild type (WT) and PTEN knockout (KO) HeLa cells, using [KO Validated] PTEN Rabbit mAb (A19104) at 1:1000 dilution.

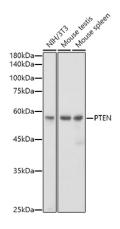
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 60s.



Western blot analysis of various lysates using [KO Validated] PTEN Rabbit mAb (A19104) at 1:1000 dilution.

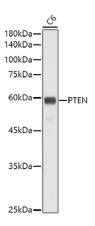
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 1s.



Western blot analysis of lysates from C6 cells, using [KO Validated] PTEN Rabbit mAb (A19104) at 1:1000 dilution

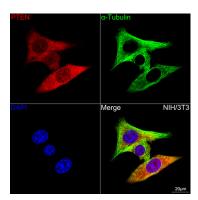
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 60s.



Confocal imaging of NIH/3T3 cells using [KO Validated] PTEN Rabbit mAb (A19104, dilution 1:100) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.