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Phospho-PTEN-S380/T382/T383 Rabbit mAb

Catalog No.: AP1346 Recombinant 1 Publications

Basic Information

Observed MW
54kDa

Calculated MW
47kDa

Category
Primary antibody

Applications
ELISA,WB,IHC-P,IF/ICC

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC55940

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.

Recommended Dilutions

WB	1:1000 - 1:5000
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200

Immunogen Information

Gene ID
5728

Swiss Prot
P60484

Immunogen
A synthetic phosphorylated peptide around S380 & T383 of human Phospho-PTEN-S380/T382/T383 (NP_000305.3).

Synonyms
BZS; DEC; CWS1; GLM2; MHAM; TEP1; MMAC1; PTEN1; 10q23del; PTENbeta; Phospho-PTEN-S380/T382/T383

Contact

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Product Information

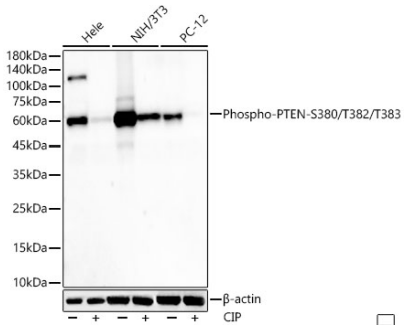
Source
Rabbit

Isotype
IgG

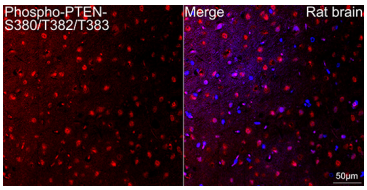
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

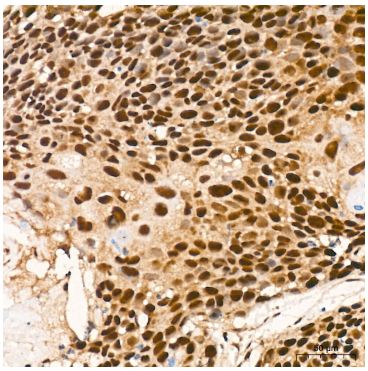
Validation Data



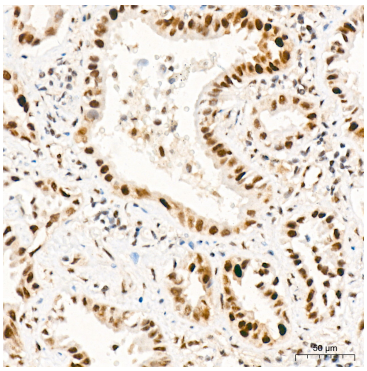
Western blot analysis of various lysates, using Phospho-PTEN-S380/T382/T383 Rabbit mAb (AP1346) at1:2000 dilution.Hela,NIH/3T3,and PC-12 cells were treated by CIP(20uL/400ul) at 37℃ for 1 hour.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60s.



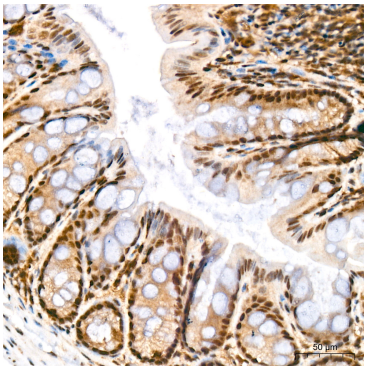
Confocal imaging of paraffin-embedded Rat brain tissue using Phospho-PTEN-S380/T382/T383 Rabbit mAb (AP1346, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform microwave antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.



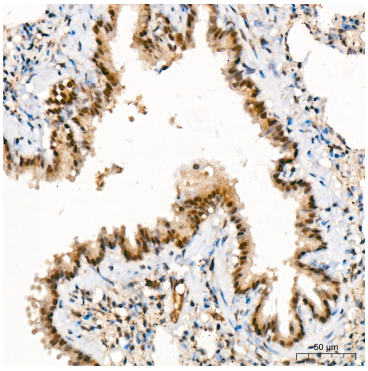
Immunohistochemistry analysis of Phospho-PTEN-S380/T382/T383 in paraffin-embedded human cervix cancer tissue using Phospho-PTEN-S380/T382/T383 Rabbit mAb (AP1346) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Phospho-PTEN-S380/T382/T383 in paraffin-embedded Human lung adenocarcinoma tissue using Phospho-PTEN-S380/T382/T383 Rabbit mAb (AP1346) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Phospho-PTEN-S380/T382/T383 in paraffin-embedded mouse colon tissue using Phospho-PTEN-S380/T382/T383 Rabbit mAb (AP1346) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Phospho-PTEN-S380/T382/T383 in paraffin-embedded rat lung tissue using Phospho-PTEN-S380/T382/T383 Rabbit mAb (AP1346) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.