

anti- PTEN antibody

Product Information

| | |
|---------------|---|
| Catalog No.: | FNab09821 |
| Size: | 100µg |
| Form: | liquid |
| Purification: | Immunogen affinity purified |
| Purity: | ≥95% as determined by SDS-PAGE |
| Host: | Rabbit |
| Clonality: | polyclonal |
| Clone ID: | None |
| IsoType: | IgG |
| Storage: | PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months (Avoid repeated freeze / thaw cycles.) |

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.

Immunogen information

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|--------------|--------------------------------|
| Immunogen: | phosphatase and tensin homolog |
| Synonyms: | MMAC1, TEP1 |
| Observed MW: | 53 kDa |
| UniprotID : | P60484 |

Wuhan Fine Biotech Co., Ltd.

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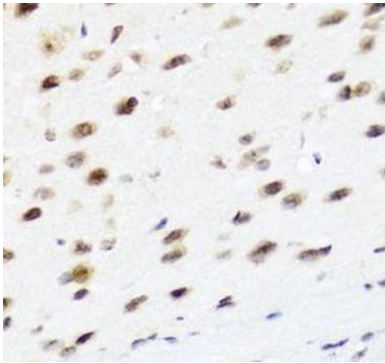
Application

Reactivity: Human, Mouse, Rat, Monkey

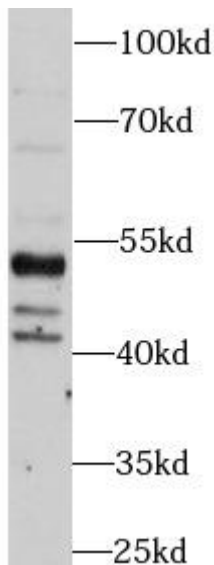
Tested Application: ELISA, WB, IHC

Recommended dilution: WB: 1:500 - 1:2000; IHC: 1:50 - 1:100

Image:



Immunohistochemistry of paraffin-embedded mouse brain slide using FNab09821(PTEN Antibody) at dilution of 1:100



Hela cells were subjected to SDS PAGE followed by western blot with FNab09821(PTEN Antibody) at dilution of 1:1000

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