PTEN Rabbit Polyclonal Antibody

CAB0008



Product Information Protein Background Size: 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, 5-20uL, 50uL, 100uL, 200uL 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 **Observed MW:** tyrosine phosphatases, this protein preferentially dephosphorylates phosphoinositide substrates. It negatively regulates intracellular levels of phosphatidylinositol-3, 4, 5-65kDa trisphosphate in cells and functions as a tumor suppressor by negatively regulating AKT/PKB **Calculated MW:** 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 19kDa/47kDa/64kDa 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. **Applications:** Alternative splicing and the use of multiple translation start codons results in multiple transcript variants encoding different isoforms. WB IHC IF Immunogen information **Reactivity:** Human, Mouse, Rat Gene ID: 5728 Uniprot **Antibody Information** P60484 **Recommended dilutions:** WB 1:500 - 1:2000 IHC 1:50 Synonyms: - 1:200 IF 1:50 - 1:200 10q23del; BZS; CWS1; DEC; GLM2; MHAM; MMAC1; PTEN1; TEP1; Source: PTEN; PTENbeta Rabbit Immunogen: **Isotype:** Recombinant fusion protein containing a sequence corresponding lgG to amino acids 209-403 of human PTEN (NP_000305.3). Storage: **Purification:** Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% Affinity purification sodium azide, 50% glycerol, pH7.3.