

Product datasheet for TA366872S

PTEN Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IHC

Recommended Dilution: IHC: 25-100

Positive control: Human tonsil

Predicted cell location: Cytoplasm or Nucleus

Reactivity: Human, Mouse

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

Immunogen: Synthetic peptide of human PTEN

Formulation: pH7.4 PBS, 0.05% NaN3, 40% Glycerol

Purification: Antigen affinity purification

Conjugation: Unconjugated Storage: Store at -20°C.

Stability: 1 year

Gene Name: phosphatase and tensin homolog

Database Link: Entrez Gene 5728 Human

P60484

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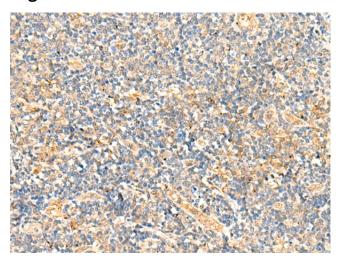
Background:

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.

Synonyms:

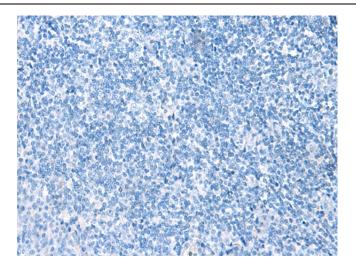
10q23del; BZS; MGC11227; MHAM; MMAC1; PTEN1; TEP1

Product images:

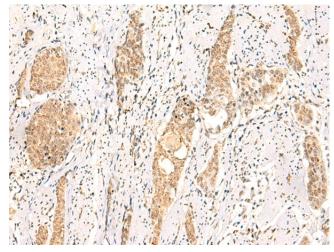


Immunohistochemistry of paraffin-embedded Human tonsil tissue using [TA366872] (PTEN Antibody) at dilution 1/20 (Original magnification: ×200)

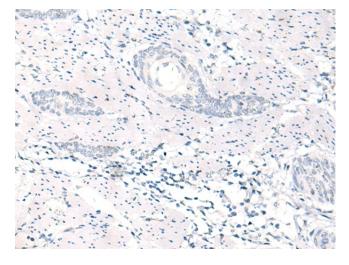




Immunohistochemistry of paraffin-embedded Human tonsil tissue using [TA366872] (PTEN Antibody) at dilution 1/20, treated with synthetic peptide. (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using [TA366872] (PTEN Antibody) at dilution 1/20 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using [TA366872] (PTEN Antibody) at dilution 1/20, treated with synthetic peptide. (Original magnification: ×200)