

Product datasheet for TA323701

PTEN Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IHC, WB

Recommended Dilution: WB: 500-2000

WB positive control: NIH/3T3 cell lysate

IHC: 20-100

Positive control: Human tonsil Predicted cell location: Nucleus

Reactivity: Human, Mouse

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

Immunogen: Synthetic peptide corresponding to a region derived from 381-396 amino acids of human

phosphatase and tensin homolog

Formulation: PBS pH7.3, 0.05% NaN3, 50% glycerol

Concentration: lot specific

Purification: Antigen affinity purification

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Predicted Protein Size: 47 kDa

Gene Name: phosphatase and tensin homolog

Database Link: NP 000305

Entrez Gene 19211 MouseEntrez Gene 5728 Human

P60484



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

PTEN Rabbit Polyclonal Antibody - TA323701

Background:

This gene was identified as a tumor suppressor that is mutated in a large number of cancers at high frequency. The protein encoded 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.

Synonyms: 10q23del; BZS; CWS1; DEC; GLM2; MHAM; MMAC1; PTEN1; TEP1

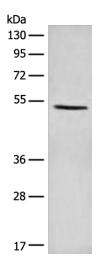
Protein Families: Druggable Genome, Phosphatase

Protein Pathways: Endometrial cancer, Focal adhesion, Glioma, Inositol phosphate metabolism, Melanoma, p53

signaling pathway, Pathways in cancer, Phosphatidylinositol signaling system, Prostate

cancer, Small cell lung cancer, Tight junction

Product images:



Gel: 8%SDS-PAGE Lysate: 40 μg

Lane: NIH/3T3 cell lysate

Primary antibody: TA323701 (PTEN Antibody) at

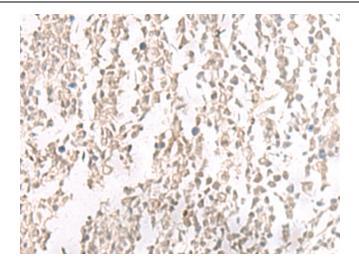
dilution 1/1100

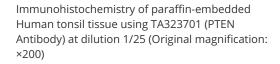
Secondary antibody: Goat anti rabbit IgG at

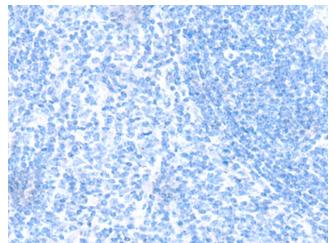
1/8000 dilution

Exposure time: 20 seconds









Immunohistochemistry of paraffin-embedded Human tonsil tissue using TA323701 (PTEN Antibody) at dilution 1/25, treated with synthetic peptide. (Original magnification: ×200)