







PTEN (DGR12097) Rabbit mAb

db15824 Package : 10μL 20μL 50μL 100μL

Product Name: PTEN (DGR12097) Rabbit mAb

Cat.No.: db15824

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

Application: WB

Reactivity: Human, Mouse, Rat

Host species: Rabbit

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. [provided by RefSeq, Feb 2015]

Immunogen Recombinant protein of human PTEN

Gene ID 5728

Swiss Prot P60484

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

Reactivity Human, Mouse, Rat

Application WB

Recommended dilution WB: 1:2000-1:20000

Calculated MW 47 kDa

Observed MW 54 kDa

Host species Rabbit





Clonality Monoclonal

Clonality No. DGR12097

Isotype IgG

Purity Affinity Purification

Conjugation Un-conjugated

Storage Stability Store at -20°C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium

azide and 0.05% BSA. Stable for 12 months from date of receipt.

HeLa

kDa
250 150 100 75 50 37 25 20 15 10 -

Western blot analysis of extracts from HeLa cells using db15824 at 1:1000.