



Recombinant

DGRmAb[®]

Phospho-PTEN (Ser380) (DGR15241) Rabbit mAb

db13955 Package : 10μL 20μL 50μL 100μL

Product Name: Phospho-PTEN (Ser380) (DGR15241) Rabbit mAb

Cat.No.: db13955

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 A synthetic phosphopeptide corresponding to residues surrounding Ser380 of human PTEN

Gene ID 5728

Swiss Prot P60484

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Reactivity Human, Mouse, Rat

Application WB

Recommended dilution WB: 1:1000

Calculated MW 47 kDa

Observed MW 54 kDa

Host species Rabbit





Clonality Monoclonal

Clonality No. DGR15241

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.

Western blot analysis of extracts from 3T3 cells using db13955 at 1:1000.