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Datasheet for 600-401-859

PTEN-P1 phospho S29/T32 Antibody

Overview

Description:	Anti-PTEN-P1 pS29/pT32 (RABBIT) Antibody - 600-401-859
Item No.:	600-401-859
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human, Mouse, Dog
Host Species:	Rabbit

Product Details

Background:	This gene (PTENP1) is a highly homologous pseudogene of PTEN. PTEN was identified as a tumor suppressor that is mutated in a large number of cancers at high frequency. PTEN is a phosphatidylinositol-3,4,5-trisphosphate 3-phosphatase. It contains a tension 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:	rabbit anti-PTEN-P1 pS29 pT32 antibody, Phosphatase and tensin homolog 2, Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN, Mutated in multiple advanced cancers 1, Phosphatase and tensin homolog, PTEN, MMAC1, TEP1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PTEN
Reactivity:	Human, Mouse, Dog
PTM Specificity:	Phosphorylation

Immunogen Type:	Recombinant Protein
Immunogen:	This affinity purified phoshpo antibody was prepared from whole rabbit serum produced by repeated immunizations with a recombinant protein corresponding to amino acids 223-237 of human PTEN protein.
Purity/Specificity:	This affinity-purified antibody is directed against the phosphorylated form of human PTEN protein at the pS29 and pT32 residues. The product was affinity purified from monospecific antiserum by immunoaffinity purification. Antiserum was first purified against the phosphorylated form of the immunizing peptide. The resultant affinity purified antibody was then cross-adsorbed against the non-phosphorylated form of the immunizing peptide. Reactivity occurs against human PTEN pS29/pT32 protein and the antibody is specific for the phosphorylated form of the proteins. Approximately 3% reactivity is observed against the non-phosphorylated form of the immunizing peptide. A BLAST analysis was used to suggest cross reactivity with PTEN proteins from mouse and dog sources based on 100% homology with the immunizing sequence. Reactivity against homologues from other sources is not known.
Relevant Links:	• UniProtKB - O43460 • NCBI - 73765544 • GeneID - 5728

Application Details

Tested Applications:	ELISA, WB
Application Note:	This affinity purified antibody has been tested for use in ELISA and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 41 kDa in size corresponding to PTEN-P1 protein by western blotting in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000 - 1:80,000
WB:	1:500 - 1:2,000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.87 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Disclaimer

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