

**Anti-PTEN-P1 pS29/pT32 (RABBIT) Antibody**  
**PTEN-P1 phospho S29/T32 Antibody**  
**Catalog # ASR5301****Specification**

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**Anti-PTEN-P1 pS29/pT32 (RABBIT) Antibody - Product Information**

Host	Rabbit
Conjugate	Unconjugated
Target Species	Human
Reactivity	Rat, Chimpanzee, Human, Mouse, Bovine, Dog
Clonality	Polyclonal
Application	WB, E, I, LCI
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.
Physical State	Liquid (sterile filtered)
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	This affinity purified 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.
Preservative	0.01% (w/v) Sodium Azide

**Anti-PTEN-P1 pS29/pT32 (RABBIT) Antibody - Additional Information****Other Names**

5728

**Purity**

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.

**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.

**Precautions Note**

This product is for research use only and is not intended for therapeutic or diagnostic applications.

**Anti-PTEN-P1 pS29/pT32 (RABBIT) Antibody - Protein Information****Anti-PTEN-P1 pS29/pT32 (RABBIT) Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-PTEN-P1 pS29/pT32 (RABBIT) Antibody - Images****Anti-PTEN-P1 pS29/pT32 (RABBIT) Antibody - 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.