



[Go to Product page](#)

Datasheet for ABIN349585

## anti-PTENP1 antibody (N-Term)

### 1 Image

#### Overview

Quantity:	100 µg
Target:	PTENP1
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PTENP1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

#### Product Details

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a peptide corresponding to amino acids near the N-terminal end of human PTEN-P1 protein. Immunogen Type: Peptide
Isotype:	IgG
Specificity:	This affinity-purified antibody is directed against human PTEN-P1 protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. Reactivity occurs against human PTEN-P1 protein. A BLAST analysis was used to suggest cross reactivity with PTEN proteins from mouse,
Characteristics:	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

## Product Details

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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.

Purification: affinity purified

Sterility: Sterile filtered

## Target Details

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Target: PTENP1

Alternative Name: PTEN-P1 ([PTENP1 Products](#))

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: Phosphatase and tensin homolog pseudogene 1 antibody, psiPTEN antibody, PTEN rs antibody, PTEN2 antibody, PTH2 antibody, TEP1 antibody

Gene ID: 5728, 73765544

UniProt: [O43460](#)

## Application Details

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Application Notes: 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 55 kDa in size corresponding to PTEN-P1 protein by western blotting in the appropriate cell lysate or extract.

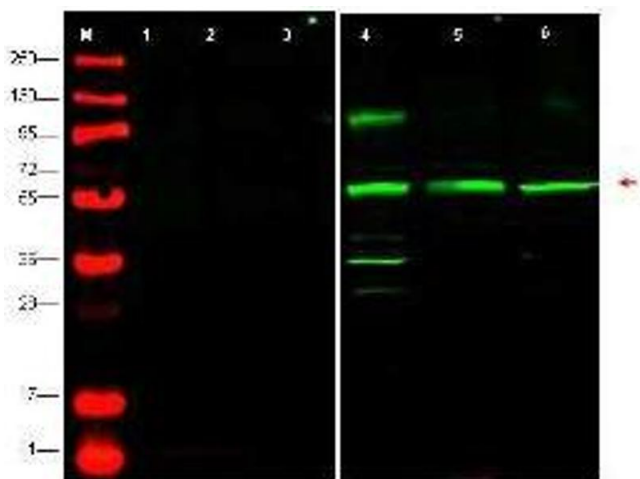
Comment: Gene Name: PTENP1

Restrictions: For Research Use only

## Handling

Format:	Liquid
Concentration:	1.15 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	Store vial at 4 °C prior to restoration. For extended storage aliquot contents and freeze at -20 °C or below. 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 date is three (3) months from date of opening.
Expiry Date:	3 months

## Images



### Western Blotting

**Image 1.** Western blot using affinity purified anti-PTEN-P1 antibody shows detection of endogenous PTEN-P1 in whole cell lysates from human derived cell lines HeLa (lane 4), HEK293 (lane 5) and MCF7 (lane 6). The band at ~55 kDa (arrowhead) corresponds to PTEN-P1. Lanes 1-3 were show the results of staining after the antibody was first pre-incubated with the immunizing peptide. The identity of lower molecular weight bands in lane 4 is unknown. Briefly, each lane contains approximately 35 µg of lysate. Primary antibody was used at a 1:500 dilution in 5% BLOTTO in PBS reacted overnight at 4°C. The membrane was washed and reacted with a 1:10,000 dilution of conjugated Gt-a-Rabbit IgG [H&L] MX for 45 min at room temperature (800 nm channel, green). Molecular weight estimation was made by comparison to prestained MW markers in lane M (700 nm channel, red). 800 fluorescence image was captured using

the Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.