

## Anti-Phospho-PTEN (Ser385) Polyclonal Antibody

## Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

## Applications

Application:	ELISA,IF,IHC-P
Recommended	IHC-P: 1:100-300; ELISA: 1:5000

## Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	A synthesized phosphopeptide: human PTEN around the phosphorylation site of Ser385. AA range:370-400
Antigen Species:	Human
Uniprot ID:	P60484
Synonyms:	MMAC1 phosphatase and tensin homolog deleted on chromosome 10;Phosphatase and tensin like protein;GLM2;Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN;BZS;10q23del;DEC;Mutated in multiple advanced cancers 1;PTEN1;MHAM;p-PTEN (Ser385);Phosphatase and tensin homolog;MMAC1;MGC11227;p-PTEN (S385);PTEN (p-Ser385);PTEN (p-S385);TEP1;Phospho-PTEN (S385)

## Research Background

phosphatase and tensin homolog(PTEN) Homo sapiens 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 ener

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