

Rabbit Anti-PTEN Polyclonal Antibody

CPB-967RH Rabbit(PTEN)

Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview	Rabbit Anti-PTEN Polyclonal Antibody
Antigen Description	PTEN is one of the most frequently mutated tumor suppressors in human cancer. PTEN is a dual-specificity phosphatase with both protein phosphatase and lipid phosphatase activity. It is the first phosphatase identified as a tumor suppressor. It may be involved in almost all types of cancer, both solid tumors and hematological malignancies.
specificity	The antibody detects endogenous level of total PTEN protein.
Target	PTEN
Immunogen	Peptide sequence around aa.378~382/380~384/381~385 (R-Y-S-D-T-T-D-S) derived from Human PTEN.
Host	Rabbit
Species	Human
Cross Reactivity	Human; Mouse; Rat
conjugation	N/A
Applications	WB, IHC

PACKAGING

Format	Supplied at 1.0 mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150 mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C / 1 year

ANTIGEN GENE INFORMATION

Gene Name	PTEN phosphatase and tensin homolog [Homo sapiens]
Official Symbol	PTEN
Synonyms	PTEN; phosphatase and tensin homolog; BZS, MHAM; phosphatidylinositol-3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN; MMAC1; mutated in multiple advanced cancers 1; PTEN1; TEP1; phosphatase and tensin-like protein; MMAC1 phosphatase and tensin homolog deleted on chromosome 10; BZS; DEC; GLM2; MHAM; 10q23del; MGC11227;
GeneID	5728
mRNA Refseq	NM_000314
Protein Refseq	NP_000305
UniProt ID	P60484
Chromosome Location	10q23

Pathway

3-phosphoinositide degradation, organism-specific biosystem; 3-phosphoinositide degradation, conserved biosystem; Adaptive Immune System, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; BCR signaling pathway, organism-specific biosystem; Class I PI3K signaling events, organism-specific biosystem; D-myo-inositol -trisphosphate biosynthesis, organism-specific biosystem;

Function

PDZ domain binding; anaphase-promoting complex binding; enzyme binding; hydrolase activity; inositol-1,3,4,5-tetrakisphosphate 3-phosphatase activity; lipid binding; magnesium ion binding; phosphatidylinositol-3,4,5-trisphosphate 3-phosphatase activity; phosphatidylinositol-3,4,5-trisphosphate 3-phosphatase activity; phosphatidylinositol-3,4-bisphosphate 3-phosphatase activity; phosphatidylinositol-3-phosphatase activity; phosphoprotein phosphatase activity; protein binding; protein serine/threonine phosphatase activity; protein tyrosine phosphatase activity; protein tyrosine/serine/threonine phosphatase activity;