

Rabbit PTEN Polyclonal Antibody | anti-PTEN antibody

PTEN (Phospho-Ser380/Thr382/Thr383) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA304159	Rabbit	Human, Mouse, Rat	Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PTEN; Polyclonal Antibody; PTEN (Phospho-Ser380/Thr382/Thr383) Antibody; MMAC1; Mutated in multiple advanced cancers 1; Protein-tyrosine phosphatase PTEN; TEP1; anti-PTEN antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Specificity	The antibody detects endogenous level of PTEN only when phosphorylated at serine 380 and threonine 382/383.
Form/Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	403
Applicable Applications for anti-PTEN antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of threonine 380/382/383 (R-Y-S(p)-D-T(p)-T(p)-D-S) derived from Human PTEN.
Modification	Phospho
Target Name	PTEN
Purification Note	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Preparation and Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

IMAGES



IF (Immunofluorescence)

Immunofluorescence staining of methanol-fixed MEF cells using PTEN (Phospho-Ser380/Thr382/Thr383) Antibody.



IF (Immunofluorescence)

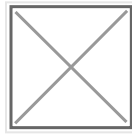
Immunofluorescence staining of methanol-fixed Hela cells using PTEN(Phospho-Ser380/Thr382/Thr383) Antibody.

**IHC (Immunohistochemisry)**

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue, using PTEN(Phospho-Ser380/Thr382/Thr383) Antibody (left) or the same antibody preincubated with blocking peptide(right).

**WB (Western Blot)**

Western blot analysis of extracts from Hela and C6 cells,treated with EGF or PMA, using PTEN(Phospho-Ser380/Thr382/Thr383) Antibody.

**WB (Western Blot)**

Western blot analysis of extracts from Hela cells, treated with IFNa or calf intestinal phosphatase (CIP), using PTEN (Phospho-Ser380/Thr382/Thr383) Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-PTEN antibody	Tumor suppressor. Acts as a dual-specificity protein phosphatase, dephosphorylating tyrosine-, serine- and threonine-phosphorylated proteins. Also acts as a lipid phosphatase, removing the phosphate in the D3 position of the inositol ring from phosphatidylinositol 3,4,5-trisphosphate, phosphatidylinositol 3,4-diphosphate, phosphatidylinositol 3-phosphate and inositol 1,3,4,5-tetrakisphosphate with order of substrate preference in vitro PtdIns(3,4,5)P3 > PtdIns(3,4)P2 > PtdIns3P > Ins(1,3,4,5)P4. The lipid phosphatase activity is critical for its tumor suppressor function. Antagonizes the PI3K-AKT/PKB signaling pathway by dephosphorylating phosphoinositides and thereby modulating cell cycle progression and cell survival. The unphosphorylated form cooperates with AIP1 to suppress AKT1 activation. Dephosphorylates tyrosine-phosphorylated focal adhesion kinase and inhibits cell migration and integrin-mediated cell spreading and focal adhesion formation. May be a negative regulator of insulin signaling and glucose metabolism in adipose tissue.
Product Categories/Family for anti-PTEN antibody	Phospho-specific Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	73765544
NCBI GeneID	5728
NCBI Accession #	NP_000305.3
NCBI GenBank Nucleotide #	NM_000314.6
UniProt Accession #	P60484 ; O00633 ; O02679 ; Q6ICT7 ; B2R904 ; F2YHV0
Molecular Weight	Predicted MW: 54kd
NCBI Official Full Name	phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN isoform PTEN
NCBI Official Synonym Full Names	phosphatase and tensin homolog
NCBI Official Symbol	PTEN
NCBI Official Synonym Symbols	BZS; DEC; CWS1; GLM2; MHAM; TEP1; MMAC1; PTEN1; 10q23del
NCBI Protein Information	phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN
UniProt Protein Name	Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN
UniProt Gene Name	PTEN
UniProt Synonym Gene Names	MMAC1; TEP1
UniProt Entry Name	PTEN_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/pten-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/304159>