

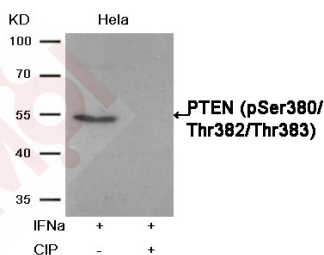
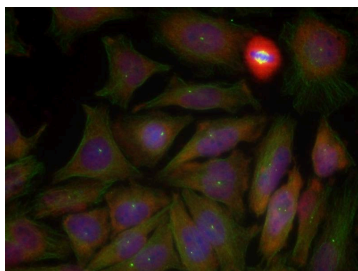
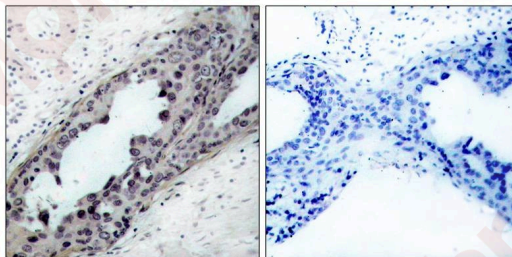
## Anti-Phospho-PTEN (Ser380, Thr382, 383) Polyclonal Antibody

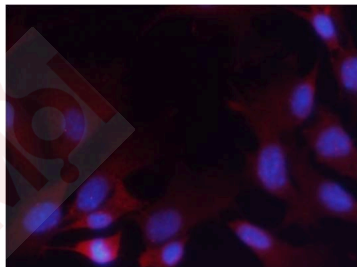
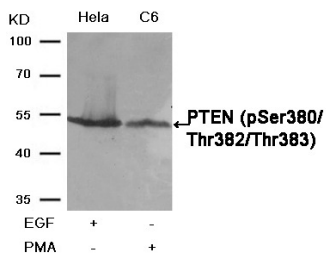
### Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Purification:	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.

### Applications

1. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue, using PTEN (Phospho-Ser380/Thr382/Thr383) Antibody TMAC-03463 (left) or the same antibody preincubated with blocking peptide (right).
2. Immunofluorescence staining of methanol-fixed Hela cells using PTEN (Phospho-Ser380/Thr382/Thr383) Antibody TMAC-03463.
3. Western blot analysis of extracts from Hela cells, treated with IFNa or calf intestinal phosphatase (CIP), using PTEN (Phospho-Ser380/Thr382/Thr383) Antibody TMAC-03463.
4. Western blot analysis of extracts from Hela and C6 cells, treated with EGF or PMA, using PTEN (Phospho-Ser380/Thr382/Thr383) Antibody TMAC-03463.
5. Immunofluorescence staining of methanol-fixed MEF cells using PTEN (Phospho-Ser380/Thr382/Thr383) Antibody TMAC-03463.





Application: IF,IHC,WB

### 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: 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

Antigen Species: Human

Uniprot ID: P60484

Synonyms: p-PTEN (Ser380, Thr382, 383);Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN;Phosphatase and tensin like protein;TEP1;PTEN (p-Ser380, Thr382, 383);MMAC1;PTEN (p-S380, T382, 383);DEC;MMAC1 phosphatase and tensin homolog deleted on chromosome 10;10q23del;Mutated in multiple advanced cancers 1; Phosphatase and tensin homolog;BZS;PTEN1;MGC11227;GLM2;p-PTEN (S380, T382, 383); Phospho-PTEN (S380, T382, 383);MHAM

### Research Background

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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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