

## Anti-Phospho-PTEN (Ser380) Antibody (6S492)

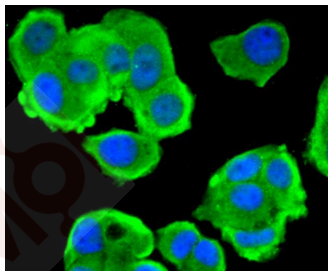
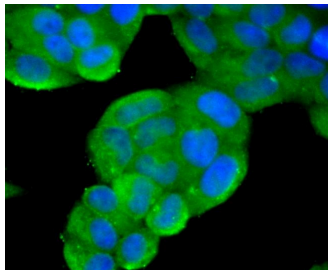
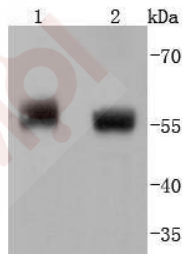
### Product Details

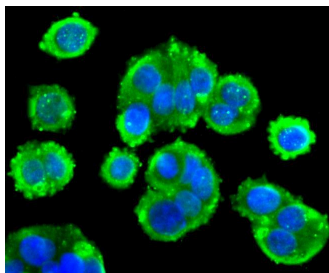
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 55 kDa.
Clone:	6S492
Purification:	ProA affinity purified

### Applications

#### Verified Activity:

1. Western blot analysis of Phospho-PTEN (S380) on different lysates using anti-Phospho-PTEN (S380) antibody at 1/1,000 dilution. Positive control: Lane 1: Human placenta, Lane 2: Human lung.
2. ICC staining Phospho-PTEN (S380) in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
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4. ICC staining Phospho-PTEN (S380) in SW480 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.





Application: ICC, WB  
Recommended WB: 1:1000-2000; ICC: 1:100-500

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### Properties

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

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### Antigen Details

Immunogen: A synthesized phosphopeptide: human PTEN around the phosphorylation site of Ser380  
Antigen Species: Human  
Uniprot ID: P60484  
Synonyms: PTEN (p-Ser380); PTEN (p-S380); Mutated in multiple advanced cancers 1; p-PTEN (Ser380); MMAC1 phosphatase and tensin homolog deleted on chromosome 10; PTEN1; p-PTEN (S380); Phosphatase and tensin homolog; 10q23del; MHAM; Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN; Phospho-PTEN (S380); TEP1; DEC; MMAC1; BZS; Phosphatase and tensin like protein; GLM2; MGC11227

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### Research Background

As human tumors progress to advanced stages, one genetic alteration that occurs at high frequency is a loss of heterozygosity (LOH) at chromosome 10q23. Mapping of homozygous deletions on this chromosome led to the isolation of the PTEN gene, also designated MMAC1 (for mutated in multiple advanced cancers) and TEP1. This candidate tumor suppressor gene exhibits a high frequency of mutations in human glioblastomas and is also mutated in other cancers, including sporadic brain, breast, kidney and prostate cancers. PTEN has been associated with Cowden disease, an autosomal dominant cancer predisposition syndrome. The PTEN gene product is a putative protein tyrosine phosphatase that is localized to the cytoplasm and shares extensive homology with the cytoskeletal proteins tensin and auxilin. Gene transfer studies have indicated that the phosphatase domain of PTEN is essential for growth suppression of glioma cells.

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

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