



Affinity-Purified Rabbit Anti-phospho-Pten (S380) Antibody

Specificity: Human phospho-PTEN (S380)	Size: 0.1 mg
Source: Rabbit	IgG Type: rabbit IgG

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. 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.

Other Name: Phosphatidylinositol-3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN

Specificity:

Human: Positive

Application : For western blot analysis, an antibody concentration of 1 µg/ml is recommended

ELISA	Positive
Western blotting	Positive 1 mg/ml
Immunohistochemistry	Positive
Immunoprecipitation	Positive
Flow cytometry	Positive

Isotype: Rabbit IgG

Description: This antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding the phosphorylated sites.

Storage: Upon reconstitution, maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C to -70°C. Lyophilized samples are stable for twelve months from the date of receipt when stored at -20°C to -70°C

Format: Purified rabbit monoclonal antibody supplied in PBS with 0.02% (W/V) sodium azide. This antibody is first purified by protein G affinity chromatography. Then, the antibody fraction is peptide affinity purified in a 2-step procedure with the control and phosphorylated peptides. The phospho-specific antibody is eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.

Precautions: This product is for research use only. Not for use in diagnostic or therapeutic procedures.

References:

1. Parsons R, et al., NUCLEOTIDE SEQUENCE. Submitted (APR-1997) to the EMBL/GenBank/DBJ databases.
2. Minaguchi, T., et al., Cancer Lett. 210(1):57-62 (2004).
3. Goel, A., et al., Cancer Res. 64(9):3014-3021 (2004).