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12-4116: Phospho-PTEN (Ser380) (Clone: NA9) rabbit mAb

Clonality: Monoclonal
Clone Name: PTENS380-NA9

Application: FACS

Reactivity: Human, Mouse
Conjugate: Unconjugated
Format: Purified

Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein

Alternative Name: phosphatase, Mutated in multiple advanced cancers 1, MMAC1, Phosphatase and tensin

homolog, TEP1

Isotype: Rabbit IgG1k

Immunogen Information: A synthetic phospho-peptide corresponding to residues surrounding Ser380 of human

phospho PTEN

Description

PTEN has been identified as a tumor suppressor gene and has been found to be mutated in a significant number of human cancers, including prostate, brain, and breast cancer. PTEN shares sequence homology with the protein-tyrosine phosphatase (PTPase) family of proteins and negatively regulates the PI3K/Akt pathway. PTEN de-phosphorylates target proteins, and recombinant PTEN has been shown to have phosphoinositide 3-phosphhatase and inositol phosphate 3-phosphatase activity. Studies of primary tumor cells show a loss of PTEN expression after metastasis to the brain, via astrocyte-derived microRNAs. A cluster of phosphorylation sites (\$380, T382, T383, and \$385) in the C-terminal tail of PTEN drive a conformational change that reduces PTEN activity by inhibiting membrane interactions.

Product Info

Amount : 20 μl / 200 μl

Content: 1X PBS, 0.02% NaN3, 50% Glycerol, 0.1% BSA

Storage condition : Store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

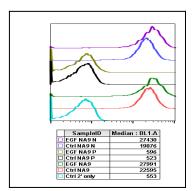


Fig-1: Flow cytometric analysis of A431 cells, untreated and unstained as negative control (blue) or untreated and stained (green) or treated with lambda phosphatase and stained (red) using Phospho-PTEN (S380) antibody, PTENS380-NA9 at $0.1 \,\mu g/mL$.



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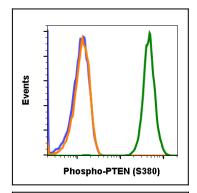


Fig 2 : Peptide blocking flow cytometric analysis of A431 cells secondary antibody only negative control (light blue) or untreated (red) or treated with EGF (green) or untreated and blocked with phospho-peptide (black) or EGF and blocked with phospho peptide (gold) or untreated and blocked with non-phospho peptide (dark blue) or EGF and blocked with non-phospho peptide (purple) using Phospho-PTEN (S380) antibody PTENS380-NA9 0.05 $\mu g/mL$.

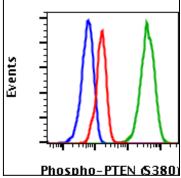


Fig-3: PTENS380-NA9 recognizes basal phosphorylation levels in mouse cells. Flow cytometric analysis of L929 cells secondary antibody only (blue) or 0.1 μ g/mL of isotype control (orange) or of Phospho-PTEN (S380) antibody PTENS380-NA9 (green).