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12-4176: Phospho-PTEN (Ser380/Thr382/383) (Clone: E4) rabbit mAb PE conjugate

Clonality: Monoclonal

Clone Name: PTENS380T382383-E4

Application: FACS
Reactivity: Human
Conjugate: PE

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 and Thr382/383 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 (S380, T382, T383, and S385) in the C-terminal tail of PTEN drive a conformational change that reduces PTEN activity by inhibiting membrane interactions.

Product Info

Amount: 100 Tests

Content: 1X PBS, 0.09% NaN3, 0.2% BSA

Storage condition : Store at 2-8°C. Avoid repeated freeze and thaw cycles.

Application Note

For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells or 5 μ L per 100 μ L of staining volume. It is recommended that the reagent be titrated for optimal performance for each application.

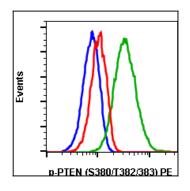


Fig-1: Flow cytometric analysis of A431 cells, untreated and unstained cells as negative control (blue) or untreated and stained (green) or treated with lambda phosphatase and stained (red) using Phospho-PTEN (Ser380/Thr382/383) antibody PTENS380T382383-E4 PE conjugate.