Phospho-PTEN (Ser380) (NA9) rabbit mAb FITC conjugate

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For Research Use Only. Not For Use In Diagnostic Procedures.

| Applications | Detection | Clonality | Isotype |
|----------------|-----------|------------|-------------|
| Flow Cytometry | N/A | Monoclonal | Rabbit IgGk |

Format: FITC

Cross Reactivity: Predicted to work with mouse, rat and other homologues.

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

Preparation: Protein A+G

Reactivity: Human, Mouse

Recommended

Usage: For flow cytometric staining, the suggested use of this reagent is 5 μL per million cells or 5 μL per 100

µL of staining volume. It is recommended that the reagent be titrated for optimal performance for each

application.

Immunogen: 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 (S380, T382, T383, and S385) in the C-terminal tail of PTEN drive a conformational change that reduces PTEN activity by inhibiting

membrane interactions.

References: Li J, Yen C, Liaw D, et al. (1997) Science. 275:1943-1947.

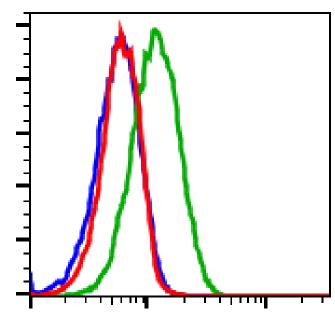
Maehama T, and Dixon JE. (1998) Journal of Biological Chemistry. 273:13375-13378.

Zhang L, Zhang S, You J, et al. (2015) Nature. 527:100-104.

Chen Z, Dempsey DR, Thomas SN, Hayward D, Bolduc DM, and Cole PA. (2016) Journal of

Biological Chemistry. 291:14160-14169.





Phospho-PTEN (\$380) FITC

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 FITC conjugate, Cat. #2238.

