PTEN Mouse Monoclonal Antibody

E10-20399

Background: PTEN (phosphatase and tensin homolog) was identified as a tumor suppressor that is mutated in a large number of cancers at high frequency. This protein is a phosphatidylinositol-3,4,5-trisphosphate 3-phosphatase. It contains a tensin like domain as well as a catalytic domain similar to that of the dual specificity protein tyrosine phosphatases. Unlike most of the protein tyrosine phosphatases, this protein preferentially dephosphorylates phosphoinositide substrates. It negatively regulates intracellular levels of phosphatidylinositol-3,4,5-trisphosphate in cells and functions as a tumor suppressor by negatively regulating AKT/PKB signaling pathway.

Catalog Number: E10-20399

Amount: 100µg/100µl

Clone Number: 1B8

Species: Mouse IgG1

MW: 54kDa

Aliases: BZS; MHAM; TEP1; PTEN1

Entrez Gene: 5728

Immunogen: Purified recombinant fragment of PTEN expressed in E. Coli.

Storage: Store at 4 °C for long term storage, store at -20 °C

Formulation: Ascitic fluid containing 0.03% sodium azide.

Species Reactivities: Human; Mouse

Tested Applications: WB,IF,FC,ELISA. Not yet tested in other applications. Determining optimal working dilutions by titration test.

Application notes: WB 1/500 - 1/2000,IF 1/200 - 1/1000,FC 1/200 - 1/400,ELISA..ELISA. Propose dilution 1/10000.

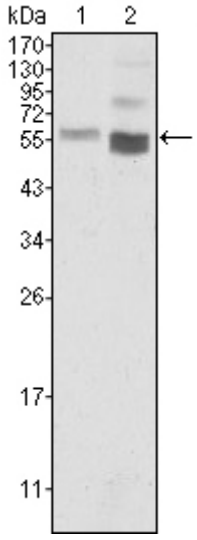

Figure 1. Western blot analysis using PTEN mouse mAb against Hela (1) and NIH/3T3 (2) cell lysate.

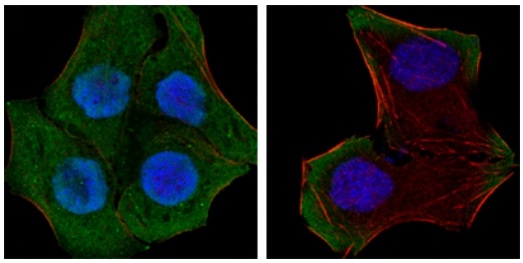

Figure 2. Confocal immunofluorescence analysis of Hela (left) and HepG2 (right) cells using PTEN mouse mAb (green). Red. Actin filaments have been labeled with DY-554 phalloidin. Blue. DRAQ5 fluorescent DNA dye.

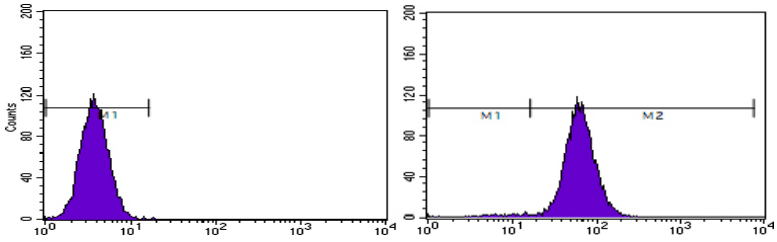

Figure 3. Flow cytometric analysis of Hela cells using PTEN mouse mAb (right) and negative control (left).

For Research Use Only