



Category: Monoclonal Antibodies
Product Name: Mouse Monoclonal Antibody to PTEN

Catalog Number: MAB-606020399

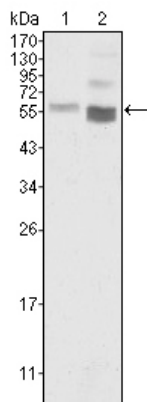


Figure 1: Western blot analysis using PTEN mouse mAb against HeLa (1) and NIH/3T3 (2) cell lysate.

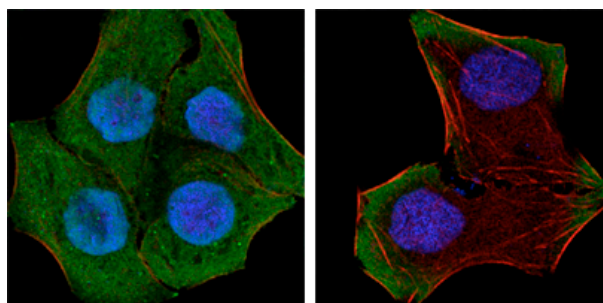


Figure 2: Confocal immunofluorescence analysis of HeLa (left) and HepG2 (right) cells using PTEN mouse mAb (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.

Lot#:
Clone#: 1B8
Host and isotype: Mouse IgG1
Size: 0.1ml
MW: 54kDa
Aliases: BZS; MHAM; TEP1; PTEN1
Entrez Gene: 5728
Species reactivity: Human; Mouse

Description 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.

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

Application Western Blotting: 1/500 - 1/2000.
Immunofluorescence: 1/200 - 1/1000.
Flow cytometry: 1/200 - 1/400.
ELISA: Propose dilution 1/10000.
Not yet tested in other applications.
Determining optimal working dilutions by titration test.

Formulation Antibody are purified by protein G affinity chromatography.
Liquid in PBS containing 50% glycerol and 0.03% sodium azide.

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

Related product References 1. Nat Genet. 1998 Aug;19(4):348-55.
2. Oncogene. 1999 May 20;18(20):3181-5.
3. Eur J Immunol. 2002 Apr;32(4):1196-204.

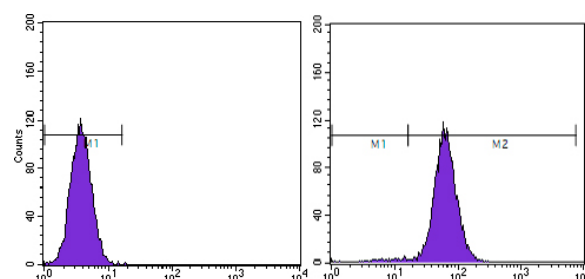


Figure 3: Flow cytometric analysis of HeLa cells using PTEN mouse mAb (right) and negative control (left).

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Contact: Antagene, Inc. | Tel: 1 (866) 964-2589 | Fax: 1 (888) 225-1868 | Email: Info@antageneinc.com