
Product Name: PTEN Mouse Monoclonal Antibody**Catalog #: AMM80780**

For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,ICC,ELISA,FC
Reactivity	Human,Mouse
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Purified antibody in PBS with 0.05% sodium azide.
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:2000,ICC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
Molecular Weight	54kDa

Antigen Information

Gene Name	PTEN
Alternative Names	BZS; MHAM; TEP1; PTEN1
Gene ID	5728.0
SwissProt ID	P60484
Immunogen	Purified recombinant fragment of PTEN expressed in E. Coli.

Background

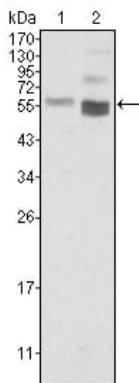
PTEN (phosphatase and tensin homolog) was identified as a tumor suppressor that is mutated in a large number of cancers at high frequency. This protein is a phosphatidylinositol-3,4,5-trisphosphate 3-phosphatase. It contains a tensin like domain as well as a catalytic domain similar to that of the dual 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.

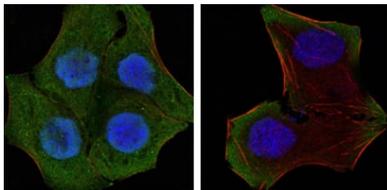
Research Area

Apoptosis, PI3K-Akt signaling pathway

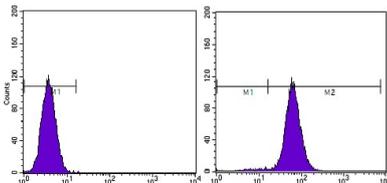
Image Data



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



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.



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