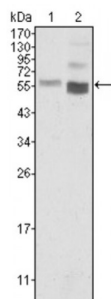


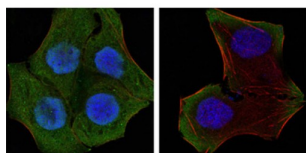
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Phosphatidylinositol-3,4,5-Trisphosphate 3-Phosphatase And Dual-Specificity Protein Phosphatase PTEN (PTEN) Antibody

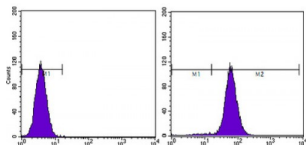
Catalogue No.: abx011415



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



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



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

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.

Target:	PTEN
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal

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Tested Applications:	ELISA, WB, IF/ICC, FCM
Recommended dilutions:	ELISA: 1/10000, WB: 1/500 - 1/2000, IF/ICC: 1/200 - 1/1000, FCM: 1/200 - 1/400. Optimal dilutions/concentrations should be determined by the end user.
Immunogen:	Purified recombinant fragment of PTEN expressed in E. Coli.
Purification:	Purified by protein G affinity chromatography.
Form:	Liquid
Isotype:	IgG ₁
Conjugation:	Unconjugated
Storage:	Aliquot and store at -20 °C. Avoid repeated freeze/thaw cycles.
Molecular Weight:	54 kDa
Swiss Prot:	P60484
GeneID:	5728
Gene Symbol:	PTEN
Enzyme Commission Number:	EC 3.1.3.16:::EC 3.1.3.67:::EC 3.1.3.48
Concentration:	1.0 mg/ml
Buffer:	PBS containing 50% glycerol and 0.03% sodium azide.
Note:	This product is for research use only.