

Mouse Monoclonal Antibody to PTEN

Catalogue Number	sAP-0328
Target Molecule	<p>Name: PTEN</p> <p>Aliases: BZS; MHAM; TEP1; PTEN1</p> <p>MW: 54kDa</p> <p>Entrez Gene ID: 5728</p>
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.
Reactive Species	Human; Mouse;
Clone	MM1B8;
Size and Concentration	100µg/1mg/ml
Supplied as	Lyophilized Powder from 100µl of Ascitic fluid containing 0.03% sodium azide.
Reconstitution/Storages	Reconstituted with 100µl sterile DI H ₂ O, at stored at 4°C or -20°C for short or long term storage
Applications	ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; ICC: 1 to 200 - 1 to 1000; FCM: 1 to 200 - 1 to 400
Shipping	Regular FEDEX overnight shipment (ambient temperature)
Reference	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.;

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**