PTEN Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PTEN, Polyclonal Antibody
Full Product Name	PTEN, Phosphorylated (Y240) (PTEN, MMAC1, TEP1, Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN, Mutated in multiple advanced cancers 1, Phosphatase and tensin homolog) (MaxLight 550)
Product Gene Name	anti-PTEN antibody
Product Synonym Names	PTEN; MMAC1; TEP1; Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN; Mutated in multiple advanced cancers 1; Phosphatase and tensin homolog
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	47,166 Da
Chromosome Location	Chromosome: 10; NC_000010.10 (89623195..89728532). Location: 10q23.3
OMIM	137800
3D Structure	ModBase 3D Structure for P60484
Immunogen	Phospho-PTEN-Y240 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding Y240 of human PTEN.
Conjugate	MaxLight550
Antigen Modification	Phosphorylated
Note	Preservative Free
Product Categories/Family for anti-PTEN antibody	Antibodies; Cancer Markers
Applications Tested/Suitable for anti-PTEN antibody	FLISA, Dot Blot (DB)
Application Notes for anti-PTEN antibody	FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-PTEN antibody	This gene was identified as a tumor suppressor that is mutated in a large number of cancers at high frequency. The protein encoded this gene 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.

Product References and Citations for anti-PTEN antibody	Miletic, A.V., et al. J. Exp. Med. 207(11):2407-2420(2010). Kini, V., et al. J. Biol. Chem. 285(43):33082-33091(2010). Shimada, M., et al. Hum. Genet. 128(4):433-441(2010). Molina, J.R., et al. Cancer Res. 70(17):6697-6703(2010). Iliopoulos, D., et al. Mol. Cell 39(4):493-506(2010).
Other Notes	Small volumes of anti-PTEN antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PTEN purchase	MBS6338630 is an antibody targeting PTEN. Also known as PTEN, Phosphorylated (Y240) (PTEN, MMAC1, TEP1, Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN, Mutated in multiple advanced cancers 1, Phosphatase and tensin homolog) (MaxLight 550). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PTEN. It may not necessarily be applicable to this product.

NCBI GI #	73765544
NCBI GeneID	5728
NCBI Accession #	NP_000305.3
UniProt Primary Accession #	P60484
UniProt Secondary Accession #	O00633; O02679; Q6ICT7; B2R904
UniProt Related Accession #	P60484
GenBank Nucleotide #	NM_000314.4
NCBI Official Full Name	phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN
NCBI Official Synonym Full Names	phosphatase and tensin homolog
NCBI Official Symbol	PTEN
NCBI Official Synonym Symbols	BZS; DEC; CWS1; GLM2; MHAM; TEP1; MMAC1; PTEN1; 10q23del
UniProt Protein Name	Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN
UniProt Synonym Protein Names	Mutated in multiple advanced cancers 1; Phosphatase and tensin homolog
Protein Family	Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase
UniProt Gene Name	PTEN
UniProt Synonym Gene Names	MMAC1; TEP1
UniProt Entry Name	PTEN_HUMAN
NCBI Protein Information	phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN; phosphatase and tensin-like protein; mutated in multiple advanced cancers 1; MMAC1 phosphatase and tensin homolog deleted on chromosome 10; phosphatidyli
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