PTEN Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PTEN, Polyclonal Antibody
Full Product Name	PTEN (Phospho-Tyr336) Rabbit pAb
Product Gene Name	anti-PTEN antibody
Product Synonym Names	Phosphatidylinositol 3; 5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN; Mutated in multiple advanced cancers 1; Phosphatase and tensin homolog; PTEN; MMAC1; TEP1
Clonality	Polyclonal
Isotype	Ig
Clone Number	RB39435
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied in PBS with 0.09% (W/V) Sodium Azide. This antibody is purified through a protein A column, followed by two-step phosphospecific peptide affinity purification.
Purity/Purification	Affinity Purified
OMIM	137800
3D Structure	ModBase 3D Structure for P60484
Immunogen	This PTEN antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding Y336 of human PTEN.
Cellular Localization	Cytoplasm, Nucleus, Secreted
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PTEN antibody	Dot Blot (DB)
Application Notes for anti-PTEN antibody	DB: 1:500
Related Product Information for anti-PTEN antibody	MBS8554248 is an antibody targeting PTEN. Also known as PTEN (Phospho-Tyr336) Rabbit pAb. Reactive in Human. Host: Rabbit.
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.

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 Related Accession #	P60484
GenBank Nucleotide #	NP_000305.3
NCBI Official Full Name	phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN isoform 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; PTENbeta
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
NCBI Summary for PTEN	This gene was identified as a tumor suppressor that is mutated in a large number of cancers at high frequency. The protein encoded by 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. The use of a non-canonical (CUG) upstream initiation site produces a longer isoform that initiates translation with a leucine, and is thought to be preferentially associated with the mitochondrial inner membrane. This longer isoform may help regulate energy metabolism in the mitochondria. A pseudogene of this gene is found on chromosome 9. Alternative splicing and the use of multiple translation start codons results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Feb 2015]
Research Articles on PTEN	**1.** PTEN gene silence disorganizes the PI3K/AKT/ PTEN/mTOR signaling transduction pathway in laryngeal squamous cell carcinoma, affecting potentially the response rates to specific targeted therapeutic agents and the prognosis in those patients
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