

Rabbit anti-Human PTEN Monoclonal Antibody | anti-PTEN antibody

PTEN RMaB

CATALOG # AAA59303	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

PTEN; Monoclonal Antibody; PTEN RMaB; anti-PTEN antibody

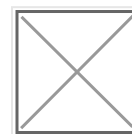
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Clone Number	RBT-PTEN
Form/Format	PTEN is a rabbit monoclonal antibody derived from cell culture supernatant that is concentrated, dialyzed, filter sterilized and diluted in buffer pH 7.5, containing BSA and sodium azide as a preservative.
Sequence Length	403
Applicable Applications for anti-PTEN antibody	IHC (Immunohistochemistry)
Localization	Cytoplasmic, Nuclear
Control	Prostate, Prostatic Adenocarcinoma
Intended Use	This antibody is intended for use in Immunohistochemical applications on formalinfixd paraffin-embedded tissues (FFPE), frozen tissue sections and cell preparations. Interpretation of results should be performed by a qualified medical professional.
Immunogen	Synthetic peptide corresponding to the N-terminus of the human PTEN protein.
Preparation and Storage	Store at 2 to 8 degree C in the dark.

IMAGES



IHC (Immunohiostchemistry)
IHC of PTEN on a FFPE Prostate Carcinoma Tissue



Dilution Info

ADDITIONAL INFORMATION

Related Product Information for anti-PTEN antibody	Phosphatase and tensin homolog (PTEN) is a protein that, in humans, is encoded by the PTEN gene. 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. PTEN is one of the most commonly lost tumor suppressors in human cancer; in fact, up to 70% of men with prostate cancer are estimated to have lost a copy of the PTEN gene at the time of identification. During tumor development, mutations and deletions of PTEN occur that inactivate its enzymatic activity leading to increased cell proliferation and reduced cell death. Frequent genetic inactivation of PTEN occurs in glioblastoma, endometrial cancer, and prostate cancer; and reduced expression is found in many other tumor types such as lung and breast cancer. In breast and prostate cancer, loss of PTEN expression has been shown to correlate positively with advanced stage. Furthermore, PTEN mutation also causes a variety of inherited predispositions to cancer.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4240387
NCBI GeneID	5728
Molecular Weight	19,796 Da
NCBI Official Full Name	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
NCBI Protein Information	phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN
UniProt Protein Name	Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN
UniProt Gene Name	PTEN
UniProt Synonym Gene Names	MMAC1; TEP1
UniProt Entry Name	PTEN_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/pten-antibody-clone-rbt-pten-immunohistochemistry-elisa/59303>