# PTEN Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

| | |
|---|---|
| **Product Name** | PTEN, Polyclonal Antibody |
| **Full Product Name** | PTEN, Phosphorylated (T366) (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-T366 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding T366 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<br>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** | MBS6338564 is an antibody targeting PTEN. Also known as PTEN, Phosphorylated (T366) (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 |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
| **Disclaimer** | While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice.<br><br>It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information. |

| | |
|---|---|
| **Product Note** | Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details. |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures.

**MyBioSource** | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/pten/6338564