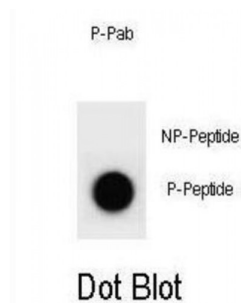


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## PTEN (pY176) Antibody

Catalogue No.: abx032258



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.

|                               |                                                                                                                                                                            |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Target:</b>                | PTEN (pY176)                                                                                                                                                               |
| <b>Reactivity:</b>            | Human                                                                                                                                                                      |
| <b>Host:</b>                  | Rabbit                                                                                                                                                                     |
| <b>Clonality:</b>             | Polyclonal                                                                                                                                                                 |
| <b>Tested Applications:</b>   | DB                                                                                                                                                                         |
| <b>Recommended dilutions:</b> | Optimal dilutions/concentrations should be determined by the end user.                                                                                                     |
| <b>Immunogen:</b>             | Human PTEN (phospho-Tyr176).                                                                                                                                               |
| <b>Purification:</b>          | Peptide Affinity Purified Rabbit Polyclonal Antibody.                                                                                                                      |
| <b>Isotype:</b>               | IgG                                                                                                                                                                        |
| <b>Conjugation:</b>           | Unconjugated                                                                                                                                                               |
| <b>Specificity:</b>           | This PTEN Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding Y176 of human PTEN. |
| <b>Storage:</b>               | Aliquot and store at -20 °C. Avoid repeated freeze/thaw cycles.                                                                                                            |
| <b>Swiss Prot:</b>            | <a href="#">P60484</a>                                                                                                                                                     |

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**Gene Symbol:** PTEN

**Enzyme Commission Number:** EC 3.1.3.16::EC 3.1.3.67::EC 3.1.3.48

**Buffer:** 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.

**Note:** This product is for research use only.