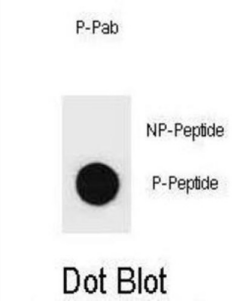
# PTEN (pS294) Antibody

Catalogue No.:abx032190




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.

| | |
|---|---|
| **Target:** | PTEN (pS294) |
| **Clonality:** | Polyclonal |
| **Target Modification:** | Ser294 |
| **Modification:** | Phosphorylation |
| **Reactivity:** | Human |
| **Tested Applications:** | ELISA, DB |
| **Host:** | Rabbit |
| **Recommended dilutions:** | DB: 1/500. Optimal dilutions/concentrations should be determined by the end user. |
| **Conjugation:** | Unconjugated |
| **Immunogen:** | KLH-conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S294 of human PTEN. |
| **Isotype:** | IgG |
| **Form:** | Liquid |
| **Purification:** | Purified through a protein A column, followed by two-step phosphospecific peptide affinity purification. |




Abbexa LTD, Cambridge, UK · Phone: +44 (0) 1223 755950 · Fax: +44 (0) 1223 755951
Abbexa LLC, Houston, TX USA · Phone: +1 832 327 7413
Abbexa BV, Leiden, NL
Website: www.abbexa.com · Email: info@abbexa.com

| | |
|---|---|
| **Storage:** | Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles. |
| **UniProt Primary AC:** | P60484 (UniProt, ExPASy) |
| **Gene Symbol:** | PTEN |
| **KEGG:** | hsa:5728 |
| **String:** | 9606.ENSP00000361021 |
| **Enzyme Commission Number:** | EC 3.1.3.16, EC 3.1.3.67, EC 3.1.3.48 |
| **Molecular Weight:** | Calculated MW: 47.2 kDa |
| **Buffer:** | PBS containing 0.09% sodium azide. |
| **Specificity:** | Predicted to react with Mouse PTEN. |
| **Note:** | THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION. |




Abbexa LTD, Cambridge, UK · Phone: +44 (0) 1223 755950 · Fax: +44 (0) 1223 755951
Abbexa LLC, Houston, TX USA · Phone: +1 832 327 7413
Abbexa BV, Leiden, NL
Website: www.abbexa.com · Email: info@abbexa.com