

## Datasheet

### PTEN polyclonal antibody (A01)

**Catalog Number:** H00005728-A01

**Regulation Status:** For research use only (RUO)

**Product Description:** Mouse polyclonal antibody raised against a partial recombinant PTEN.

**Immunogen:** PTEN (AAH05821, 221 a.a. ~ 320 a.a) partial recombinant protein with GST tag.

**Sequence:**

KVKIYSSNSGPTRRREDKFMFYFEFPQPLPVCGDIKVEFF  
HKQNKMLKKDKMFHFWNTFFIPGPEETSEKVENGSL  
CDQEIDSICSIERADNDKEYLVLT

**Host:** Mouse

**Reactivity:** Human

**Applications:** ELISA, WB-Re

(See our web site product page for detailed applications information)

**Protocols:** See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Storage Buffer:** 50 % glycerol

**Storage Instruction:** Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 5728

**Gene Symbol:** PTEN

**Gene Alias:** 10q23del, BZS, MGC11227, MHAM, MMAC1, PTEN1, TEP1

**Gene Summary:** 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. [provided by RefSeq]