

## Catalog #: 51764

### Aliases

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

### Background

Gene Name: PTEN

NCBI Gene Entry: [5728](#)

UniProt Entry: [P60484](#)

### Application Information

Molecular Weight: Predicted, 47 kDa; observed, 54 kDa

Clonality: Rabbit polyclonal antibody

Species Reactivity: Human, mouse, rat, dog, monkey, pig

Applications Tested: Western blotting (WB), immunohistochemistry (IHC), immunocytochemistry (IC)

### Immunogen

A synthesized peptide derived from human PTEN

### Isotype

Rabbit IgG

### Storage Buffer

Supplied in PBS (pH 7.3) containing 30% glycerol, and 0.01% sodium azide.

### Storage

Store at -20 °C for one year.

### Recommended Dilutions

Western Blotting (WB): 1:500-1:1,000

Immunohistochemistry (IHC): 1:100-1:200

Immunocytochemistry (IC): 1:100-1:500

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

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#### SUPPORT

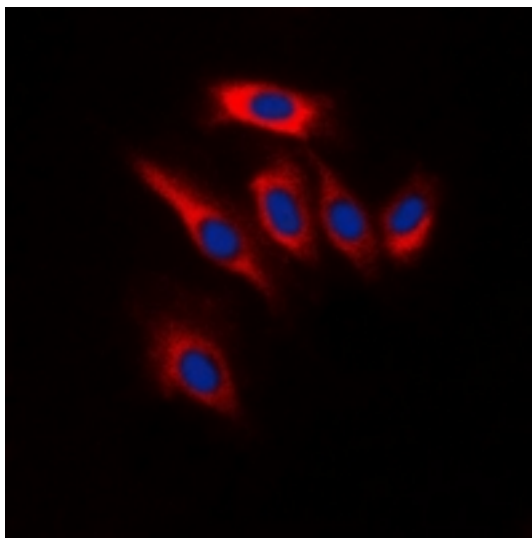
SUPPORT@GENUINBIOTECH.COM  
TEL: +1-540-855-7041

#### ORDERS

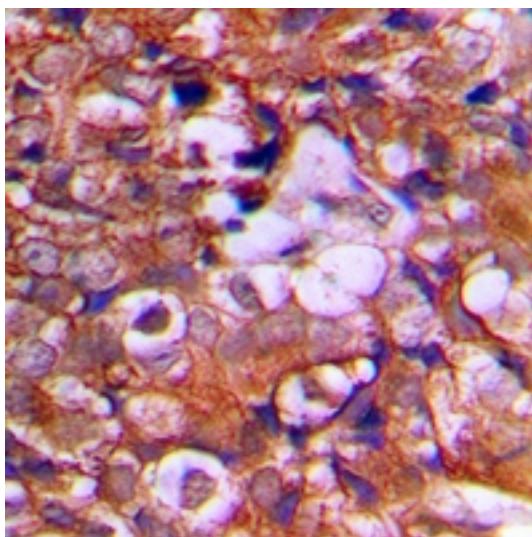
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## Validation Data



Immunocytochemical analysis of PTEN staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).



Immunohistochemical analysis of PTEN staining in human prostate cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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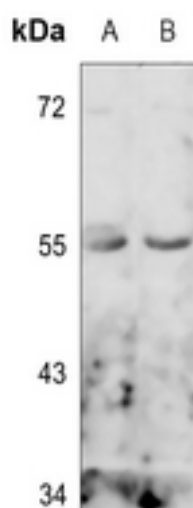
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Western blotting analysis of PTEN expression in mouse brain (A), rat brain (B) whole cell lysates.