



Rabbit anti pTEN(pS380) Polyclonal Antibody

Alternative Name(s): Phosphatase and tensin homolog; PTEN; MMAC1

Order Information

- **Description:** pTEN(pS380)
- **Catalogue:** 601-170
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), ELISA
- **Reactivity:** Hu, Ms, Rt

ANTIGEN PREPARATION

A synthetic peptide surrounding to the epitope -DTSDP-- with phosphorylation sites at Ser385 of PTEN protein from human, mouse and rat origins.

BACKGROUND

The phosphatase and tensin homologue (PTEN) tumor suppressor is a phosphatidylinositol D3-phosphatase that is frequently mutated in tumor cells. PTEN is itself regulated by phosphorylation on multiple serine and threonine residues in its C terminus. Casein kinase 2 (CK2) and Glycogen synthase kinase 3beta (GSK3beta), ATK/PI3K are involved in PTEN phosphorylation at sites of S370, S380, T382, T383, S385. The PTEN phosphorylation may play critical roles in the tumor suppressor functions.

PURIFICATION

The Rabbit IgG is purified by site-modified Epitope Affinity Purification.

FORMULATION

This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes PTEN (pS385) with a phosphorylated site at Serine 385. It does not cross-react with non-phosphospecific peptide.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

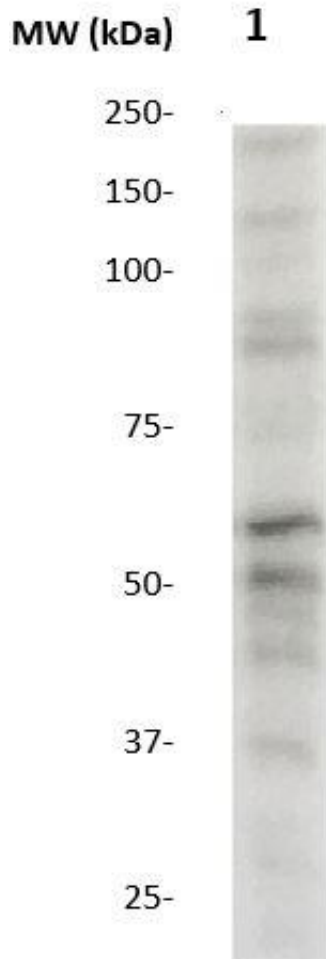
- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 58.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

*Optimal dilutions should be determined by researchers for the specific applications.

FOR RESEARCH USE ONLY.

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DATA ATTACHMENTS



Western Blot: The mouse brain tissue lysate resolved onto 10% SDS-PAGE, transferred onto NC membrane, and followed by an immunoblotting with Rabbit anti PTEN (pS385) antibody (Cat#601-170) at 1:500. Observed a major immunoreactive band at molecular weight ~55 kDa.

REFERENCES

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