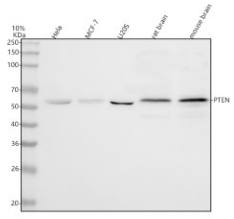
PTEN Antibody (R32154)

Catalog No.	Formulation	Size
R32154	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P60484
Localization	Cytoplasmic, nuclear
Applications	Western blot: 0.5-1ug/ml
Limitations	This PTEN antibody is available for research use only.



PTEN Antibody Human, Mouse and Rat WB. Western blot testing was performed with PTEN Antibody on human HeLa, MCF-7 and U2OS whole cell lysates (lanes 1-3), rat brain tissue lysate (lane 4) and mouse brain tissue lysate (lane 5). Samples (30 ug) were separated by 10% SDS-PAGE under reducing conditions and transferred to a nitrocellulose membrane. The antibody was used at 0.5 ug/ml overnight at 4oC. A specific band was detected at approximately 56 kDa. This PTEN Antibody demonstrates detection of phosphatase and tensin homolog in human, mouse and rat samples.

Description

PTEN is also known as BZS, DEC, CWS1, GLM2, MHAM, TEP1, PTEN1. It is mapped to 10q23.3. This gene was identified as a tumor suppressor that is mutated in a large number of cancers at high frequency. The protein encoded by 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. The PTEN structure reveals a

phosphatase domain that is similar to protein phosphatases but also has an enlarged active site important for the accommodation of the phosphoinositide substrate.

For broader research into PTEN expression and tumor suppressor function, explore our PTEN Antibody page for additional reagents targeting phosphatase and tensin homolog.

Application Notes

Optimal dilution of the PTEN antibody should be determined by the researcher.

Immunogen

Amino acids 91-403 of human PTEN were used as the immunogen for the PTEN antibody.

Storage

After reconstitution, the PTEN antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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