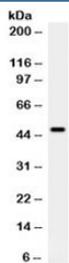


PTEN Antibody (R32154)

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, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P60484
Localization	Cytoplasmic, nuclear
Applications	Western Blot : 0.1-0.5ug/ml
Limitations	This PTEN antibody is available for research use only.



Western blot testing of rat brain with PTEN antibody. Expected molecular weight: 47~55 kDa (isoform 1), 65~70 kDa ('long' isoform).

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.

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.