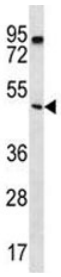
PTEN Antibody (F42884)

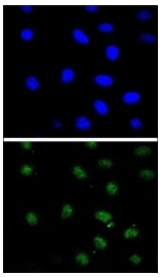
Catalog No.	Formulation	Size
F42884-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F42884-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

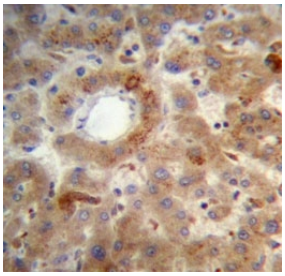
Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Mouse, Xenopus
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P60484
Applications	Western Blot : 1:1000 Immunofluorescence : 1:10-1:50 IHC (Paraffin) : 1:10-1:50
Limitations	This PTEN antibody is available for research use only.



PTEN antibody western blot analysis in K562 lysate.



Confocal immunofluorescent analysis of PTEN antibody with 293 cells followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used as a nuclear counterstain (blue).



PTEN antibody immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue.

Description

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.

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

Titration of the PTEN antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 306-335 from the human protein was used as the immunogen for this PTEN antibody.

Storage

Aliquot the PTEN antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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