

**(** Tel: 400-999-8863 **(** Emall:Upingbio.163.com





# PTEN Polyclonal Antibody

Catalog No	YP-Ab-00585
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	IF;WB;IHC;ELISA
Gene Name	PTEN MMAC1 TEP1
Protein Name	PTEN
Immunogen	Synthesized peptide derived from PTEN at AA range: 251-300
Specificity	PTEN Polyclonal Antibody detects endogenous levels of PTEN
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	IF: 1:50-200 IHC-p: 100-300.WB 1:500-2000, ELISA 1:10000-20000
Concentration	1 mg/ml
Purity	≥90%
•	
Storage Stability	-20°C/1 year
Storage Stability	-20°C/1 year phosphatase and tensin homolog; phosphatase and tensin homolog pseudogene
Storage Stability Synonyms	-20°C/1 year  phosphatase and tensin homolog; phosphatase and tensin homolog pseudogene 1
Storage Stability Synonyms Observed Band	-20°C/1 year  phosphatase and tensin homolog; phosphatase and tensin homolog pseudogene 1  50kD  Cytoplasm . Nucleus . Nucleus, PML body . Monoubiquitinated form is nuclear. Nonubiquitinated form is cytoplasmic. Colocalized with PML and USP7 in PML nuclear bodies (PubMed:18716620). XIAP/BIRC4 promotes its nuclear localization (PubMed:19473982); [Isoform alpha]: Secreted . May be secreted via a classical signal peptide and reenter into cells with the help of a poly-Arg



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partial clinical overlap with CD. BZS is characterized by the classic triad of macroce

#### Background

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. 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. The use of a non-canonical (CUG) upstream initiation site produces a longer isoform that initiates translation with a leucine, and is thought to be preferentially associated with the mitochondrial inner membrane. This longer isoform may help regulate ener

#### matters needing attention

Avoid repeated freezing and thawing!

### **Usage suggestions**

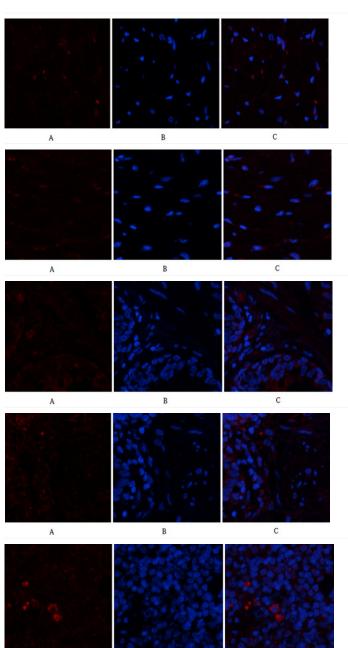
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



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# **Products Images**



Immunofluorescence analysis of human-heart tissue. 1,PTEN Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

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Immunofluorescence analysis of human-lung tissue. 1,PTEN Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

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Immunofluorescence analysis of rat-spleen tissue. 1,PTEN Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B