

## PTEN mouse Monoclonal Antibody(2C10)

### Description

Product type	Primary Antibody
Code	BT-MCA1073
Host	Mouse
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	Synthetic Peptide of PTEN at AA range of 320-400
Mol wt	N/A
Species reactivity	Human
Clonality	Monoclonal
Recommended application	IHC-p, IF
Concentration	1 mg/ml
Full name	PTEN
Synonyms	PTEN

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

### Background

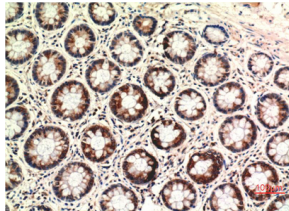
This gene was identified as a tumor suppressor that is mutated in a large number of cancers at high frequency. The protein encoded by this gene is a phosphatidylinositol-3,4,5-trisphosphate 3-phosphatase. It contains a tensin like domain as well as a catalytic domain similar to that of the dual specificity 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

### Recommended Dilution

IHC: 1:100-200

Not yet tested in other applications.

### Images



Immunohistochemical analysis of paraffin-embedded Human Colon Carcinoma Tissue using PTEN Mouse Monoclonal antibody diluted at 1:200.

### Storage

-20°C for one year