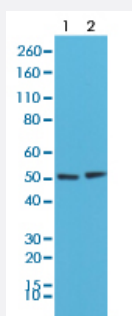


RecomAb™

PTEN monoclonal antibody, clone RM265

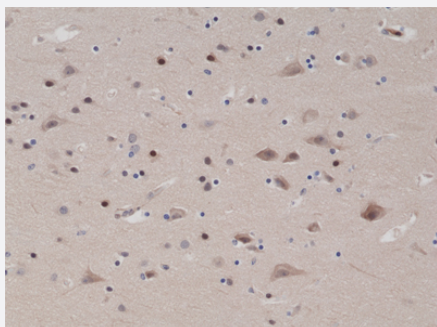
Catalog # MAB15139 Size 100 uL

Applications



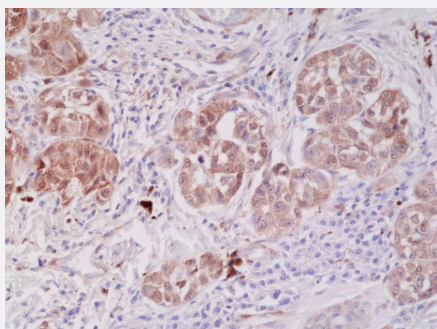
Western Blot (Cell lysate)

Western blot analysis of Lane 1: HeLa, Lane 2: 293 cell lysates with PTEN monoclonal antibody, clone RM265 (Cat # MAB15139) at a 1:1000 dilution.



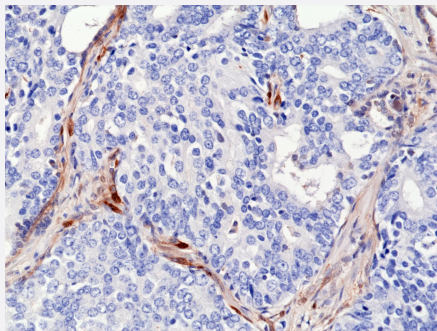
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human brain with PTEN monoclonal antibody, clone RM265 (Cat # MAB15139) at a 1:1000 dilution.



Immunohistochemistry

Immunohistochemical staining of formalin fixed and paraffin embedded human melanoma sections using PTEN monoclonal antibody, clone RM265 (Cat# MAB15139) at a 1:2000 dilution.



Immunohistochemistry

Immunohistochemical staining of formalin fixed and paraffin embedded human prostate cancer sections using PTEN monoclonal antibody, clone RM265 (Cat# MAB15139) at a 1:2000 dilution.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human PTEN.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to C-terminus of human PTEN.
Reactivity	Human
Form	Liquid
Purification	Protein A purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:1000-1:2000) Western Blot (1:1000-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (50% glycerol, 1% BSA, 0.09% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

● Western Blot (Cell lysate)

Western blot analysis of Lane 1: HeLa, Lane 2: 293 cell lysates with PTEN monoclonal antibody, clone RM265 (Cat # MAB15139) at a 1:1000 dilution.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human brain with PTEN monoclonal antibody, clone RM265 (Cat # MAB15139) at a 1:1000 dilution.

- Immunohistochemistry

Immunohistochemical staining of formalin fixed and paraffin embedded human melanoma sections using PTEN monoclonal antibody, clone RM265 (Cat# MAB15139) at a 1:2000 dilution.

- Immunohistochemistry

Immunohistochemical staining of formalin fixed and paraffin embedded human prostate cancer sections using PTEN monoclonal antibody, clone RM265 (Cat# MAB15139) at a 1:2000 dilution.

Gene Info — PTEN

Entrez GeneID [5728](#)

Protein Accession# [P60484](#)

Gene Name PTEN

Gene Alias 10q23del, BZS, MGC11227, MHAM, MMAC1, PTEN1, TEP1

Gene Description phosphatase and tensin homolog

Omim ID [137800](#) [153480](#) [158350](#) [174900](#) [176807](#) [176920](#) [188470](#) [276950](#) [601728](#) [605309](#) [607174](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. [provided by RefSeq]

Other Designations MMAC1 phosphatase and tensin homolog deleted on chromosome 10[OTTHUMP00000020032] mutated in multiple advanced cancers 1

Pathway

- [Endometrial cancer](#)

- [Focal adhesion](#)

- [Glioma](#)
- [Inositol phosphate metabolism](#)
- [Melanoma](#)
- [p53 signaling pathway](#)
- [Pathways in cancer](#)
- [Phosphatidylinositol signaling system](#)
- [Prostate cancer](#)
- [Small cell lung cancer](#)
- [Tight junction](#)

Disease

- [Abnormalities](#)
- [Adenocarcinoma](#)
- [Alzheimer disease](#)
- [Astrocytoma](#)
- [Autistic Disorder](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)

- [Colorectal Neoplasms](#)
- [Craniofacial Abnormalities](#)
- [Developmental Disabilities](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Ductus Arteriosus](#)
- [Edema](#)
- [Endometrial Neoplasms](#)
- [Endometriosis](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Hamartoma Syndrome](#)
- [Hyperplasia](#)
- [Infant](#)
- [Insulin Resistance](#)
- [Learning Disorders](#)
- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Mental Retardation](#)
- [Microsatellite Instability](#)
- [Narcolepsy](#)
- [Neoplasm Metastasis](#)

- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neuroma](#)
- [Ovarian cancer](#)
- [Ovarian Failure](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Precursor T-Cell Lymphoblastic Leukemia-Lymphoma](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Proteus Syndrome](#)
- [Pulmonary Disease](#)
- [Rectal Neoplasms](#)
- [Retinal Neoplasms](#)
- [Retinoblastoma](#)
- [Skin Neoplasms](#)
- [Stomach Neoplasms](#)
- [Syndrome](#)
- [Thyroid Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)