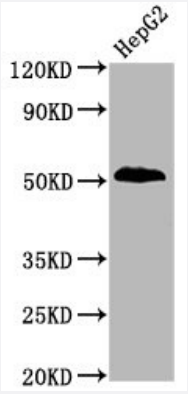
RecomAb™ Sm Size

PTEN (phospho S380) recombinant monoclonal antibody, clone 4D10

Catalog # RAB08149 Size 50 uL

Applications



Western Blot

Western blot analysis of HepG2 whole cell lysate with PTEN (phospho S380) recombinant monoclonal antibody.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human PTEN.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic phosphopeptide corresponding to residues surroundin g S380 of human PTEN.
Theoretical MW (kDa)	Calculated MW: 54 kD
Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Affinity chromatography
Isotype	IgG

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Recommend Usage	ELISA Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20 °C or -80 °C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot

  Western blot analysis of HepG2 whole cell lysate with PTEN (phospho S380) recombinant monoclonal antibody.

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 hi gh frequency. The protein encoded this gene is a phosphatidylinositol-3,4,5-trisphosphate 3-phos phatase. It contains a tensin like domain as well as a catalytic domain similar to that of the dual sp ecificity protein tyrosine phosphatases. Unlike most of the protein tyrosine phosphatases, this prot ein preferentially dephosphorylates phosphoinositide substrates. It negatively regulates intracellul ar 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

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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

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- 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

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- 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

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- Werner syndrome

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