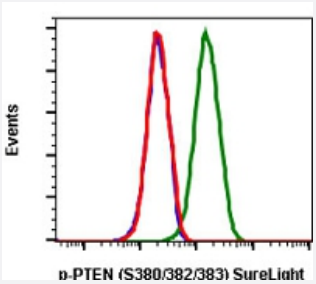
PTEN (phospho S380/T382/T383) monoclonal antibody, clone E4 (SureLight 488)

Catalog # MAB21603 Size 100 Reactions

Applications



Flow Cytometry

Flow cytometric analysis of A431 cells with PTEN (phospho S380/T382/T383) monoclonal antibody, clone E4 (SureLight 488) (Cat # MAB21603). Unstained and untreated as negative control (blue) or stained and untreated (green) or stained and treated with lambda phosphatase (red).

Specification

Product Description	Rabbit monoclonal antibody raised against synthetic phosphopeptide of human PTEN.
Immunogen	A synthetic phosphopeptide corresponding to residues surrounding S380/T382/T383 of human PTEN.
Host	Rabbit
Reactivity	Human
Form	Liquid
Conjugation	SureLight 488
Purification	Protein A/G purification
Isotype	IgG1, kappa
Recommend Usage	Flow Cytometry (5 uL/10^6 cells) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (0.2% BSA, 0.09% sodium azide).

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Storage Instruction	Store at 4°C.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Flow Cytometry

  Flow cytometric analysis of A431 cells with PTEN (phospho S380/T382/T383) monoclonal antibody, clone E4 (SureLight 488) (Cat # MAB21603). Unstained and untreated as negative control (blue) or stained and untreated (green) or stained and treated with lambda phosphatase (red).

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

Pathway

- Endometrial cancer
- Focal adhesion

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- 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

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- 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

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- 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

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