For Research Use Only

PTEN Monoclonal antibody

Catalog Number:60300-1-Ig Featured Product 35 Publications

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Basic Information

Catalog Number:
60300-1-Ig

Size:
150ul , Concentration: 1500 μg/ml by Nanodrop and 873 μg/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG17274

GenBank Accession Number:
BC005821

GeneID (NCBI):
5728

UNIPROT ID:
P60484

Full Name:
phosphatase and tensin homolog

Calculated MW:
47 kDa

Observed MW:
55 kDa

Purification Method:
Protein A purification

CloneNo.:
5C10B6

Recommended Dilutions:
WB 1:2000-1:10000
IHC 1:200-1:1200
IF 1:200-1:800

Applications

Tested Applications:
WB, IF, IHC, ELISA

Cited Applications:
WB, IF, IHC

Species Specificity:
human, mouse

Cited Species:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : DU 145 cells, fetal human brain tissue, HeLa cells, HEK-293 cells, MCF-7 cells, NIH/3T3 cells, HepG2 cells

IHC : human breast hyperplasia tissue, human breast cancer tissue, human endometrial cancer tissue, human lung cancer tissue, human prostate hyperplasia tissue

IF : HepG2 cells,

Background Information

PTEN (also designated MMAC1), products of tumor suppressor genes, are found deleted in most human gliomas. The PTEN genes are also mutated in many other tumors, such as brain, breast, kidney and prostate cancers. PTEN is a protein tyrosine phosphatase that may terminate the signaling transduction pathways mediated by PI 3-kinase/Akt. PTEN has an apparent molecular weight of 55 kDa and it is located in the cytosol.

Notable Publications

Author	Pubmed ID	Journal	Application
Ying Zhang	29074436	Int J Biochem Cell Biol	WB
Ding Jiamin	36083475	J Tradit Chin Med	WB
Li Zeng	35024240	Mol Ther Nucleic Acids	IHC

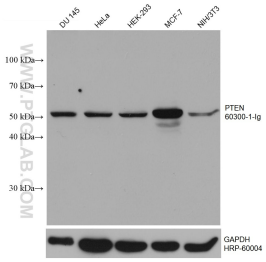
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

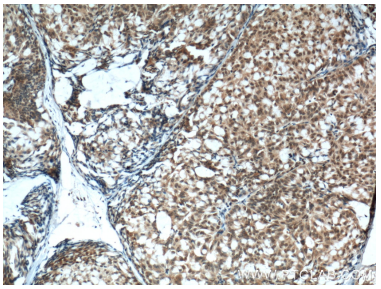
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

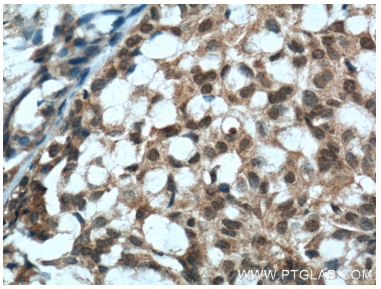
Selected Validation Data



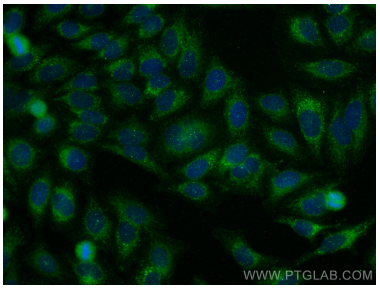
Various lysates were subjected to SDS PAGE followed by western blot with 60300-1-Ig (PTEN antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunohistochemical analysis of paraffin-embedded human breast hyperplasia tissue slide using 60300-1-Ig (PTEN antibody) at dilution of 1:600 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast hyperplasia tissue slide using 60300-1-Ig (PTEN antibody) at dilution of 1:600 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using PTEN antibody (60300-1-Ig, Clone: 5C10B6) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).