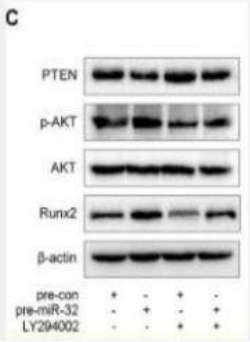
PRODUCT DATA SHEET

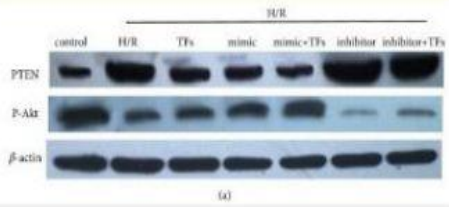
PTEN Polyclonal Antibody

Catalog No.	IPB0161
Reactivity	Human; Mouse; Rat
Applications	WB; IHC-p; IF/ICC; ELISA
Dilution	WB: 1:500-1:2000 IHC: 1:50-1:200 IF: 1:50-1:200 ELISA: 1:40000
Gene Name	PTEN
Protein Name	Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN
Human Gene Id	5728
Swiss-Prot	P60484
Formulation	Liquid in PBS containing 50% glycerol, 05% BSA and 002% sodium azide
Source	Rabbit
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Concentration	1 mg/ml
Storage&Stability	-20°C/1 year
Subcellular Location	Cytoplasm Nucleus Nucleus, PML body Monoubiquitinated form is nuclear Nonubiquitinated form is cytoplasmic Colocalized with PML and USP7 in PML nuclear bodies (PubMed:18716620) XIAP:BIRC4 promotes its nuclear localization (PubMed:19473982) [Isoform alpha]: Secreted May be secreted via a classical signal peptide and reenter into cells with the help of a poly-Arg motif
MW	47166
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

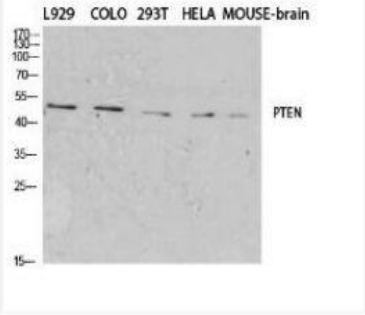
Products Images:



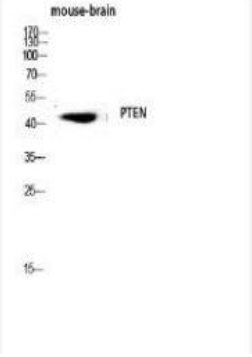
Liu, Jianghua, et al. "MicroRNA-32 promotes calcification in vascular smooth muscle cells: Implications as a novel marker for coronary artery calcification." PloS one 12.3 (2017): e0174138.



Jiang, Ruibin, et al. "Total Flavonoids from Carya cathayensis Sarg. Leaves Alleviate H9c2 Cells Hypoxia/Reoxygenation Injury via Effects on miR-21 Expression, PTEN/Akt, and the Bcl-2/Bax Pathway." Evidence-Based Complementary and Alternative Medicine 2018 (2018).



Western Blot analysis of various cells using PTEN Polyclonal Antibody diluted at 1:1000



Western blot analysis of mouse-brain lysis using PTEN antibody. Antibody was diluted at 1:1000

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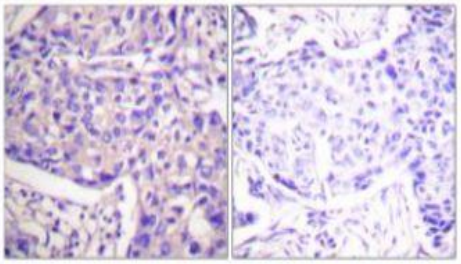
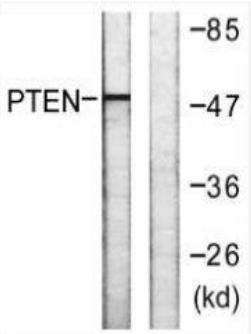


Immunohistochemistry analysis of paraffin-embedded human breast cancer, using PTEN (Ab-385) Antibody. The picture on the right is blocked with the PTEN (Ab-385) peptide.



Western blot analysis of PTEN (Ab-385) Antibody. The lane on the right is blocked with the PTEN (Ab-385) peptide.