bs-3351R **[Primary Antibody]**

phospho-PTEN (Ser380 + Thr382 + Thr383) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 5728 **SWISS:** P60484

Target: PTEN (Ser380 + Thr382 + Thr383)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human PTEN around the phosphorylation site of Ser380/Thr382/Thr383: RY(p-S)D(p-T)(p-T)DS.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Potential tumor suppressor. Acts as a phosphoinositide3-phosphatase by regulating PtdIns (3,4,5)P3 levels. Involved in regulation of the AKT1 signaling pathway. The unphosphorylated form cooperates with AIP1 to suppress AKT1 activation.The PTEN/MMAC1 discovers the first to have the suppress of the phosphoric acid enzyme activity cancer gene currently.The gene of PTEN locates the chromosome10q23 area, sending forth sex tumor and a few households cancers with the variety to suffer from the comprehensive disease easilyrelevant.The activity that passes to repress the Akt regulates the cell period, the cell ground rule decease and glues to connect.This text discussed PTEN structure, function and its correlationses, the PTEN is in tumor repress function mechanism.

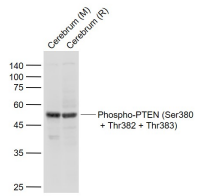
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1μg /Test)
ICC/IF (1:100)

Reactivity: Human, Mouse, Rat (predicted: Pig, Cow, Chicken, Dog, Horse)

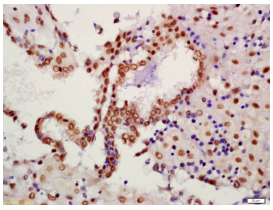
Predicted MW.: 44 kDa

Subcellular Location: Cytoplasm ,Nucleus

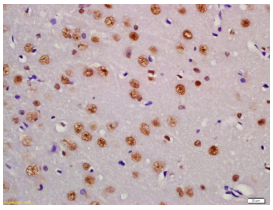
VALIDATION IMAGES



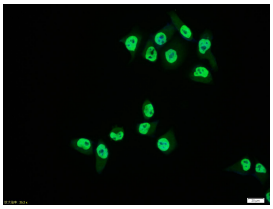
Sample: Lane 1: Cerebrum (Mouse) Lysate at 40 ug Lane 2: Cerebrum (Rat) Lysate at 40 ug Primary: Anti-Phospho-PTEN (Ser380 + Thr382 + Thr383) (bs-3351R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 47 kD Observed band size: 50 kD

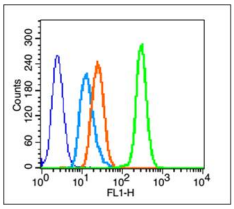


Tissue/cell: human placenta tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Phospho-PTEN(Ser380/Thr382/Thr383) Polyclonal Antibody, Unconjugated (bs-3351R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Phospho-PTEN(Ser380/Thr382/Thr383) Polyclonal Antibody, Unconjugated (bs-3351R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining





Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (Phospho-PTEN (Ser380 + Thr382 + Thr383)) polyclonal Antibody, Unconjugated (bs-3351R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

Blank control (blue line): A431 cells (fixed with 70% methanol (Overnight at 4°C) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C). Primary Antibody (green line): Rabbit Anti-Phospho-PTEN(Ser380 + Thr382 + Thr383) antibody (bs-3351R),Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC,Dilution: 1µg /test.

SELECTED CITATIONS

- **[IF=4.6]** Eun-Ju Jung. et al. Ritonavir Has Reproductive Toxicity Depending on Disrupting PI3K/PDK1/AKT Signaling Pathway. TOXICS. 2024 Jan;12(1):73 WB ;Dog. 10.3390/toxics12010073
- **[IF=3.647]** Lin D et al. Aldehyde dehydrogenase 2 regulates autophagy via the Akt-mTOR pathway to mitigate renal ischemia-reperfusion injury in hypothermic machine perfusion. Life Sci . 2020 Jul 15;253:117705. IHC,WB ;mouse. 32334008
- **[IF=4.2]** Eun-Ju Jung. et al. Miltefosine induces reproductive toxicity during sperm capacitation by altering PI3K/AKT signaling pathway. ENVIRON TOXICOL PHAR. 2024 Oct;111:104565 WB ;Pig. 39265707
- **[IF=3.421]** Woo-Jin Lee. et al. GRP78 plays a key role in sperm function via the PI3K/PDK1/AKT pathway. REPROD TOXICOL. 2022 Aug;: WB ;Pig. 35973673
- **[IF=3.3]** Ju-Mi Hwang. et al. Effect of 4-nonylphenol (4-NP) on sperm function: Insights into the PI3K/PDK1/AKT signaling pathway during capacitation. REPROD TOXICOL. 2024 Mar;124:108545 WB ;Pig. 38246476