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## Phospho-PTEN (Ser380 + Thr382 + Thr383) Rabbit pAb

Catalog Number: bs-3351R

Target Protein: Phospho-PTEN (Ser380 + Thr382 + Thr383)

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

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

Entrez Gene: 5728

Swiss Prot: P60484

Source: 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

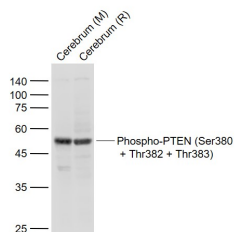
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

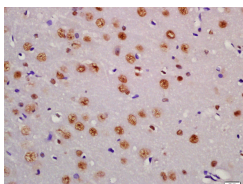
Background: Potential tumor suppressor. Acts as a phosphoinositide3-phosphatase by regulating PtdIns (3,4,5)P3 levels. Involved in regulation of the AKT1 signaling pathway. The unphosphorylated form cooperates with AIP1 to suppress AKT1 activation. The PTEN/MMAC1 discovers the first to have the suppress 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 easily relevant. The activity that passes to repress the Akt regulates the cell period, the cell ground rule decrease and glues to connect. This text discussed PTEN structure, function and its correlationses, the PTEN is in tumor repress function mechanism.

### VALIDATION IMAGES

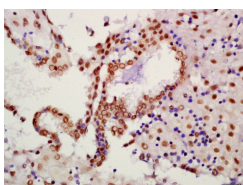
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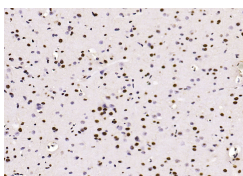
Sample: Lane 1: Cerebrum (Mouse) Lysate at 40 ug Lane 2: Cerebrum (Rat) Lysate at 40 ug Primary: Anti-Phospho-PTEN (Ser380 + Thr382 + Thr383) (bs-3351R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 47 kD Observed band size: 50 kD



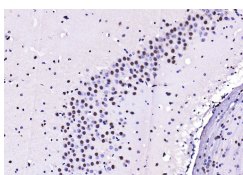
Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-Phospho-PTEN(Ser380/Thr382/Thr383) 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



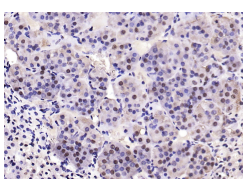
Tissue/cell: human placenta tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: 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



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Phospho-PTEN (Ser380 + Thr382 + Thr383)) Polyclonal Antibody, Unconjugated (bs-3351R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Phospho-PTEN (Ser380 + Thr382 + Thr383)) Polyclonal Antibody, Unconjugated (bs-3351R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse adrenal gland); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Phospho-PTEN (Ser380 + Thr382 + Thr383)) Polyclonal Antibody, Unconjugated (bs-3351R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

## PRODUCT SPECIFIC PUBLICATIONS

[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;;

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

WB ; Pig . 35973673

[IF=3.3] Woo-Jin Lee. et al. The natural flavonoid compound deguelin suppresses sperm (Sus Scrofa) functions through abnormal activation of the PI3K/AKT pathway. REPROD TOXICOL. 2023 Sep;120:108426 WB ; Pig . 37353039