

**bs-0686R****[ Primary Antibody ]**

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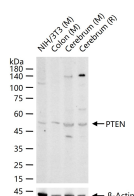
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**PTEN Rabbit pAb****— DATASHEET —**

<b>Host:</b> Rabbit <b>Clonality:</b> Polyclonal <b>GeneID:</b> 5728 <b>Target:</b> PTEN <b>Immunogen:</b> KLH conjugated synthetic peptide derived from human PTEN: 201-300/403. <b>Purification:</b> affinity purified by Protein A <b>Concentration:</b> 1mg/ml <b>Storage:</b> 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. <b>Background:</b> 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.	<b>Isotype:</b> IgG <b>SWISS:</b> P60484 <b>Applications:</b> WB (1:500-2000) <b>Reactivity:</b> Mouse, Rat (predicted: Pig)  <b>Predicted MW.:</b> 44 kDa <b>Subcellular Location:</b> Cytoplasm ,Nucleus
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**— VALIDATION IMAGES —**

25 ug total protein per lane of various lysates (see on figure) probed with PTEN polyclonal antibody, unconjugated (bs-0686R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

**— SELECTED CITATIONS —**

- **[IF=12.4]** Jianhai Chen. et al. Genetically Engineered Biomimetic Nanoparticles for Targeted Delivery of mRNA to Treat Rheumatoid Arthritis. SMALL METHODS. 2023 Aug;;2300678 WB ;Mouse. 37526322
- **[IF=5.6]** Min-Jae Yoo. et al. Synergistic Anti-Cancer Effects of ERB-041 and Genistein through Estrogen Receptor Suppression-Mediated PI3K/AKT Pathway Downregulation in Canine Mammary Gland Tumor Cells. INT J MOL SCI. 2024 Jan;25(5):2466 WB,ICC ;Dog. 38473712
- **[IF=5.6]** Chunyu Qin. et al. miR-129 Regulates Yak Intramuscular Preadipocyte Proliferation and Differentiation through the PI3K/AKT Pathway. INT J MOL SCI. 2024 Jan;25(1):632 WB ;Bovine. 38203803

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

- **[IF=6.1]** Ruixue Zhang. et al. The miR-15b-5p/miR-379-3p-FOXO axis regulates cell cycle and apoptosis in scleral remodeling during experimental myopia. J TRANSL MED. 2024; 22: 710 WB ;Guinea pig. 39080755
- **[IF=5.008]** Wang et al. Combined treatment with artesunate and bromocriptine has synergistic anticancer effects in pituitary adenoma cell lines. (2017) Oncotarge. 8:45874-45887 ICC ;Rat. 28501857