

bs-20136R**[Primary Antibody]****BPNT1 Rabbit pAb****BioSS**
ANTIBODIES

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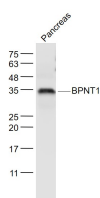
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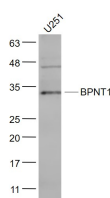
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— DATASHEET —

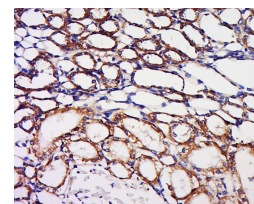
Host: Rabbit Clonality: Polyclonal GeneID: 10380 Target: BPNT1 Immunogen: KLH conjugated synthetic peptide derived from human BPNT1: 2-100/308. Purification: affinity purified by Protein A Concentration: 1mg/ml Storage: Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. Background: BPNT1 is a member of the magnesium-dependent, lithium-sensitive phosphomonoesterase superfamily. Using magnesium as a cofactor, BPNT1 catalyzes the conversion of PAPS (adenosine 3' -phosphate 5' phosphosulfate) to APS (adenosine 5' -phosphosulfate) and the conversion of PAP (3' (2')-phosphoadenosine 5' phosphate) to AMP (adenosine 5' -phosphate). Expressed ubiquitously with highest levels in brain and kidney, BPNT1 is potently inhibited by lithium, a drug used for the treatment of manic depression and bipolar affective disorder, suggesting a possible role for BPNT1 in the etiology of mood disorders. Inhibition of BPNT1 leads to an accumulation of PAP and subsequent inhibition of sulfotransferases which may result in changes in gene expression, changes in phosphatidylinositol second messenger function and/or changes in sulfation processes.	Isotype: IgG SWISS: O95861 Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Reactivity: Human, Mouse (predicted: Rat, Cow) Predicted MW.: 33 kDa Subcellular Location: Extracellular matrix, Cytoplasm
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— VALIDATION IMAGES —

Sample: Pancreas (Mouse) Lysate at 40 ug
Primary: Anti- BPNT1 (bs-20136R) at 1/1000
dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 33 kD Observed band size: 33 kD



Sample: U251 (Human) Cell Lysate at 30 ug
Primary: Anti- BPNT1 (bs-20136R) at 1/300
dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 33 kD Observed band size: 33 kD



Tissue/cell: Mouse kidney 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-BPNT1 Polyclonal Antibody, Unconjugated(bs-20136R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

— SELECTED CITATIONS —

- **[IF=1.6]** Sun Lianyi. et al. CircRNA HLCS regulates lens epithelial cell apoptosis via miR-338-3p/BPNT1 axis. INT OPHTHALMOL. 2024 Dec;44(1):1-12 WB ;Human. 38493427