bs-0197R **[Primary Antibody]**

VIPR2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

Target: VIPR2

Immunogen: KLH conjugated synthetic peptide derived from rat VIP receptor II: 81-170/437. < Extracellular >

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: Pituitary adenylate cyclase-activating polypeptide (PACAP) is a neuropeptide belonging to the vasoactive intestinal polypeptide/glucagon/ secretin family. It is widely distributed in the body, and a variety of biological actions have been reported. Recent studies have shown that there is a family of PACAP receptors (PACAPRs), and two members of this family have been identified. Mouse PACAPR-3 is a protein of 437 amino acids that has 50% and 51% identity with rat PACAP type I and type II receptors, respectively. It binds to vasoactive intestinal polypeptide as well as PACAP-38 and -27, with a slightly higher affinity for PACAP-38, PACAPR-3 mRNA is expressed at high levels in MIN6, at moderate levels in pancreatic islets and other insulin-secreting cell lines, HIT-T15 and RINm5F, as well as in the lung, brain, stomach, and colon, and at low levels in the heart. PACAPR-3 participates in the regulation of insulin secretion. insulin secretion from MIN6 cells is significantly stimulated by PACAP-38.

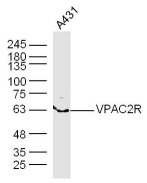
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (2ug/Test)

Reactivity: Human (predicted: Mouse, Rat, Rabbit)

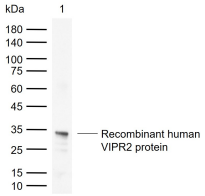
Predicted MW.: 48 kDa

Subcellular Location: Cell membrane

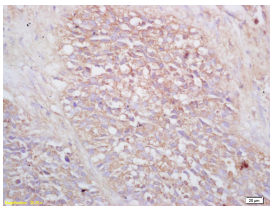
VALIDATION IMAGES



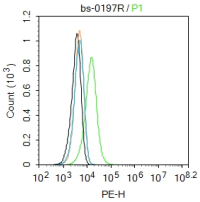
Sample: A431 Cell Lysate at 40 ug Primary: Anti-VPAC2R (bs-0197R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 48 kD Observed band size: 63 kD



Sample: Lane 1: Recombinant human VIPR2 protein, N-Trx-His(bs-42334P) Primary: Anti-VIPR2 (bs-0197R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 48 kDa Observed band size: 34 kDa



Tissue/cell: human lung carcinoma; 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-VIP receptor 2/VPAC2 Polyclonal Antibody, Unconjugated(bs-0197R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control:Hela. Primary Antibody (green line): Rabbit Anti-VPAC2R antibody (bs-0197R) Dilution: 2μg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-PE Dilution: 2μg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=3.188]** Zeqi Tang. et al. Seasonal changes in the expression of PACAP, VPAC1, VPAC2, PAC1 and testicular activity in the testis of the muskrat (Ondatra zibethicus). EUR J HISTOCHEM. 2022 Mar 24; 66(2): 3398 IHC ;Rat. 35502591
- **[IF=2.22]** Ruan, Ming, et al. "Attenuation of stress-induced gastrointestinal motility disorder by gentiopicroside, from Gentiana macrophylla Pall." Fitoterapia(2015). WB ;="Rat". 25936770
- **[IF=2.454]** Ye D et al. Spatiotemporal Expression Changes of PACAP and Its Receptors in Retinal Ganglion Cells After Optic Nerve Crush.(2018)J Mol Neurosci. Nov 10. WB,IF ;Rat. 30415445