bs-0077R **[Primary Antibody]**

VIP Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 7432 **SWISS:** P01282

Target: VIP

Immunogen: KLH conjugated synthetic peptide derived from human VIP: 125-152/170.

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: VIP(Vasoactive Intestinal peptide) is a 28-amino acid peptide structurally related tosecretin. It was originally isolated from intestinal extracts and shown to be a potent vasodilator. Subsequent work demonstrated that VIP is very widely distributed in the peripheral and central nervous systems, and probably should not be considered a true GI hormone. A huge number of biological effects have been attributed to VIP. With respect to the digestive system, VIP seems to induce smooth muscle relaxation (lower esophageal sphincter, stomach, gallbladder), stimulate secretion of water into pancreatic juice and bile, and cause inhibition of gastric acid secretion and absorption from the intestinal lumen.

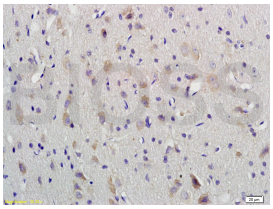
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

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

Predicted MW.: 3.3/18 kDa

Subcellular Location: Secreted

VALIDATION IMAGES



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-VIP Polyclonal Antibody, Unconjugated (bs-0077R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

SELECTED CITATIONS

- **[IF=6.208]** Zhiqiang Zhang. et al. Vasoactive Intestinal Peptide (VIP) Protects Nile Tilapia (Oreochromis niloticus) against Streptococcus agalatiae Infection. INT J MOL SCI. 2022 Jan;23(23):14895 WB ;Fish. 36499231
- **[IF=4.45]** Wieck, Minna M., et al. "Human and murine tissue-engineered colon exhibit diverse neuronal subtypes and can be populated by enteric nervous system progenitor cells when donor colon is aganglionic." Tissue Engineering A

(2015). IHC ;="". 26414777

- **[IF=3.508]** Wieck et al. Human and Murine Tissue-Engineered Colon Exhibit Diverse Neuronal Subtypes and Can Be Populated by Enteric Nervous System Progenitor Cells When Donor Colon Is Aganglionic. (2016) Tissue.Eng.Part.A. 22:53-64 IHC ;Human. 26414777
- **[IF=3.8]** Yunfei Li. et al. Hesperidin Facilitating Gastrointestinal Motility by “Gut-brain axis” and “SCF/C-Kit Signaling Pathways”. POULTRY SCI. 2024 Oct;:104390 IHC ;Chicken. 39437558
- **[IF=2.85]** Liang et al. Tryptase and Protease-Activated Receptor 2 Expression Levels in Irritable Bowel Syndrome. (2016) Gut.Liver. 10:382-90 IHC ;Human. 26446924