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Anti-VIP peptides VIP Antibody

Catalog Number: RP1108

About VIP

Vasoactive intestinal peptide, also known as PHM27 or VIP, is a peptide hormone containing 28 amino acid residues. This gene is mapped to 6q25. The protein encoded by this gene belongs to the glucagon family. It stimulates myocardial contractility, causes vasodilation, increases glycogenolysis, lowers arterial blood pressure and relaxes the smooth muscle of trachea, stomach and gall bladder. The protein also acts as an antimicrobial peptide with antibacterial and antifungal activity. Alternative splicing occurs at this locus and two transcript variants encoding distinct isoforms have been identified.

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Overview

Product Name	Anti-VIP peptides VIP Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-VIP peptides VIP Antibody catalog # RP1108. Tested in IF, IHC applications. This antibody reacts with Human, Mouse, Rat.
Application	IF, IHC
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na2HPO4, and 0.05 mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P01282

Technical Details

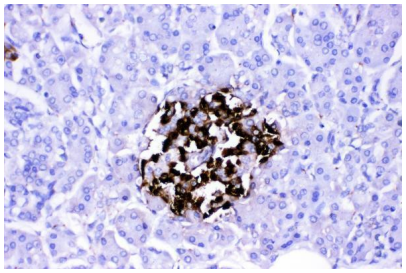
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human VIP, different from

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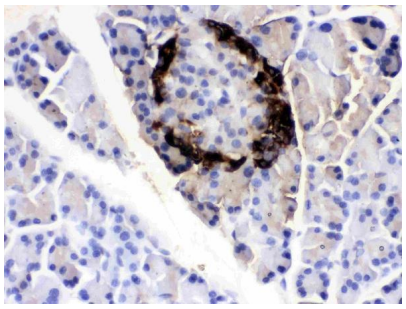
	the related mouse and rat sequences by four amino acids.
Recommended Detection Systems	Boster recommends HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Mouse, Rat Immunofluorescence, 5 ug/ml, Rat

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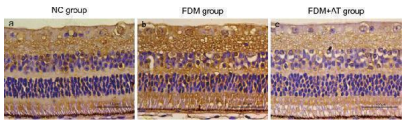
Anti-VIP peptides VIP Antibody (RP1108) Images



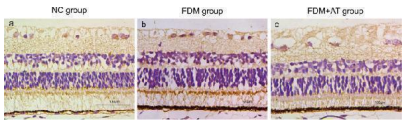
IHC analysis of VIP using anti-VIP antibody (RP1108). VIP was detected in a paraffin-embedded section of human pancreatic cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 ug/ml rabbit anti-VIP Antibody (RP1108) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.



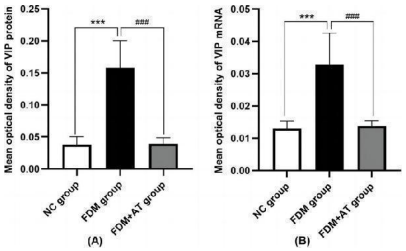
IHC analysis of VIP using anti-VIP antibody (RP1108). VIP was detected in a paraffin-embedded section of rat pancreas tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 ug/ml rabbit anti-VIP Antibody (RP1108) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.



Immunohistochemical performance of retinal VIP protein in guinea pigs (DAB, X400). a The NC group. b The FDM group. c The FDM + atropine group. The VIP protein positive expression was brown and yellow Index in PubMed under a CC BY license. PMID: 38279089



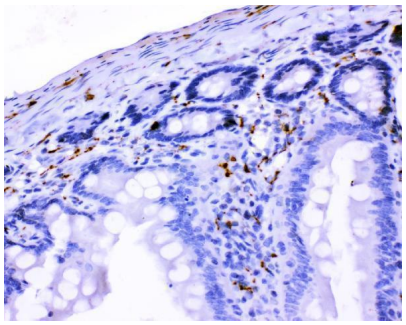
In situ hybridization performance of retinal VIP mRNA in guinea pigs (DAB, X400). a The NC group. b The FDM group. c The FDM + atropine group. The VIP mRNA positive expression was brown and yellow Index in PubMed under a CC BY license. PMID: 38279089



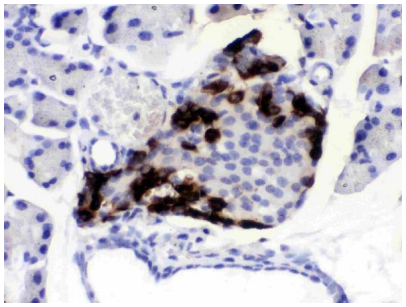
Protein and mRNA expressions of retinal VIP in guinea pig (mean ± SD). Compared with the NC group, the mean optical density of retinal VIP protein and VIP mRNA positive cells in the FDM group were significantly up-regulated ($P < 0.01$). In contrast, those in the FDM + AT group did not change significantly ($P > 0.05$) Index in PubMed under a CC BY license. PMID: 38279089

IHC analysis of VIP using anti-VIP antibody (RP1108). VIP was detected in a paraffin-embedded section of rat intestine tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue

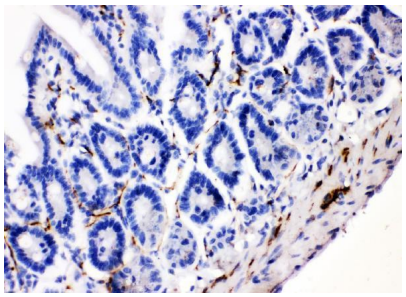
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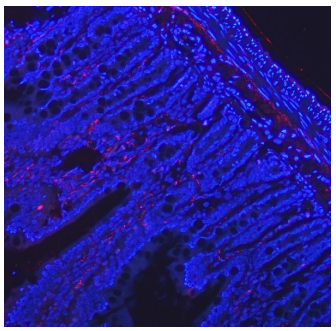
section was then incubated with 1 ug/ml rabbit anti-VIP Antibody (RP1108) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.



IHC analysis of VIP using anti-VIP antibody (RP1108). VIP was detected in a paraffin-embedded section of mouse pancreas tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 ug/ml rabbit anti-VIP Antibody (RP1108) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.



IHC analysis of VIP using anti-VIP antibody (RP1108). VIP was detected in a paraffin-embedded section of mouse intestine tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 ug/ml rabbit anti-VIP Antibody (RP1108) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.



IF analysis of VIP using anti-VIP antibody (RP1108). VIP was detected in a paraffin-embedded section of rat colon tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5 ug/mL rabbit anti-VIP Antibody (RP1108) overnight at 4°C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

8 Publications Citing This Product

1. PubMed ID: 10.1016/j.tice.2019.04.006, Distribution of postganglionic neurons which contain dopamine beta-hydroxylase, tyrosine hydroxylase, neuropeptide Y and vasoactive intestinal polypeptide in the human middle cervical ganglion

2. PubMed ID: 10.1016/j.tice.2020.101344, Sensory neurons in the human jugular ganglion

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3. PubMed ID: 10.1016/j.tice.2021.101496, Parasympathetic neurons in the human submandibular ganglion

Visit bosterbio.com/anti-vip-antibody-rp1108-boster.html to see all 8 publications.

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