10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-VIP Antibody

Catalog # ABO12784

Product Information

Application	IHC-P
Primary Accession	P01282
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for VIP peptides(VIP) detection. Tested with IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	7432
Other Names	VIP peptides, Intestinal peptide PHV-42, Peptide histidine valine 42, Intestinal peptide PHM-27, Peptide histidine methioninamide 27, Vasoactive intestinal peptide, VIP, Vasoactive intestinal polypeptide, VIP
Calculated MW	19169
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Human, Mouse, Rat, By Heat
Subcellular Localization	Secreted.
Source	Eukaryota
Protein Name	VIP peptides
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human VIP (81-107aa HADGVFTSDFSKLLGQLSAKKYLESLM), different from the related mouse and rat sequences by four amino acids.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated

freezing and thawing.

Protein Information

Name VIP (HGNC:12693)

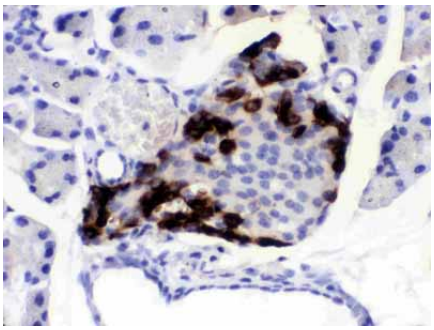
Function [Vasoactive intestinal peptide]: VIP is a neuropeptide involved in a diverse array of physiological processes through activating the PACAP subfamily of class B1 G protein-coupled receptors: VIP receptor 1 (VPR1) and VIP receptor 2 (VPR2) (PubMed:1318039, PubMed:36385145, PubMed:8933357). Abundantly expressed throughout the CNS and peripheral nervous systems where they primarily exert neuroprotective and immune modulatory roles (PubMed:3456568). Also causes vasodilation, lowers arterial blood pressure, stimulates myocardial contractility, increases glycogenolysis and relaxes the smooth muscle of trachea, stomach and gall bladder (PubMed:15013843).

Cellular Location Secreted.

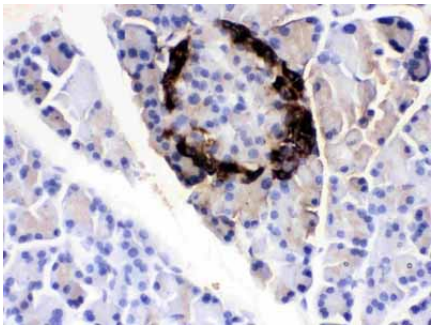
Background

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.

Images

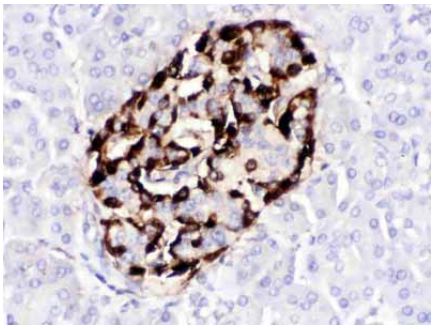


VIP was detected in paraffin-embedded sections of mouse pancreas tissues using rabbit anti- VIP Antigen Affinity purified polyclonal antibody (Catalog # ABO12784) at 1 □¼g/mL. The immunohistochemical section was developed using SABC method .



VIP was detected in paraffin-embedded sections of rat pancreas tissues using rabbit anti- VIP Antigen Affinity purified polyclonal antibody (Catalog # ABO12784) at 1 □¼g/mL. The immunohistochemical section was developed using SABC method .

VIP was detected in paraffin-embedded sections of human pancreatic cancer tissues using rabbit anti- VIP Antigen Affinity purified polyclonal antibody (Catalog # ABO12784) at 1 ??g/mL. The immunohistochemical section was developed using SABC method .



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.