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VIP Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6554b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	P01282
Reactivity	Human
Predicted	Rat, Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB18839
Calculated MW	19169
Antigen Region	139-167

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
Target/Specificity	This VIP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 139-167 amino acids from the C-terminal region of human VIP.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	VIP Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

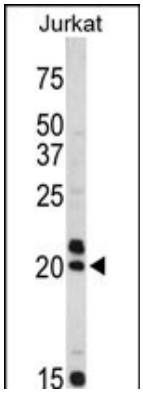
Background

VIP 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.

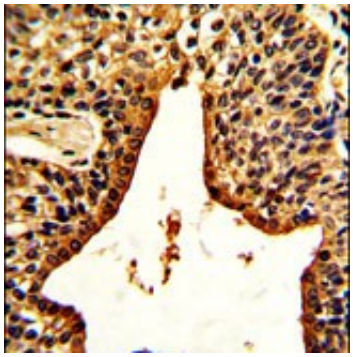
References

Lu,Y., Neurogastroenterol. Motil. 21 (7), 754-E47 (2009)
Zhu,L., Int J Gynaecol Obstet 105 (3), 223-225 (2009)

Images

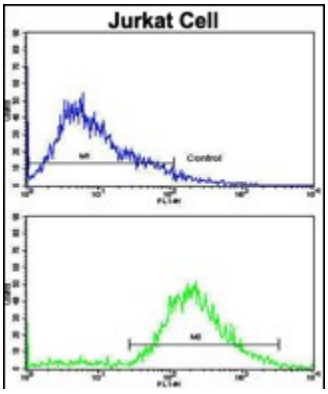


Western blot analysis of VIP antibody (C-term) (Cat. #AP6554b) in Jurkat cell line lysates (35ug/lane). VIP (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human prostate carcinoma with VIP Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Flow cytometric analysis of jurkat cells using VIP Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



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