

For Research Use Only

# VIP Polyclonal antibody

Catalog Number: 16233-1-AP

6 Publications



## Basic Information

<b>Catalog Number:</b> 16233-1-AP	<b>GenBank Accession Number:</b> BC009794	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 450 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 7432	<b>Recommended Dilutions:</b> IHC 1:400-1:1600
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P01282	IF-P 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> vasoactive intestinal peptide	IF/ICC 1:50-1:500
<b>Immunogen Catalog Number:</b> AG8933	<b>Calculated MW:</b> 169 aa, 19 kDa	

## Applications

**Tested Applications:**  
IHC, IF/ICC, IF-P, ELISA

**Cited Applications:**  
WB, IHC, IF

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
mouse, rat

**Positive Controls:**

**IHC :** human colon tissue, rat small intestine tissue, mouse brain tissue, human small intestine tissue

**IF-P :** mouse colon tissue,

**IF/ICC :** COLO 320 cells,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

Vasoactive intestinal peptide (VIP), a short peptide containing 28 amino acids belonging to the secretin-glucagon family, is initially isolated from the gastrointestinal tract as a potent vasodilator peptide. VIP was initially identified in normal nervous tissue and neurons and was subsequently recognized as a neurotransmitter widely distributed in various tissues. The wide distribution of VIP determines its involvement in a range of biological activities, such as gut motility, hormonal regulation, circadian rhythms, immune responses, and carcinogenesis. The general physiologic effects of VIP include vasodilation, anti-inflammatory actions, cell proliferation, hormonal secretion, regulation of gastric motility, and smooth muscle relaxation; therefore, VIP has emerged as a promising drug candidate for the treatment of several diseases.

## Notable Publications

Author	Pubmed ID	Journal	Application
Muhua Huang	34493162	Pharm Biol	IF
Diane Aguilar	39414787	Nat Commun	
Fatima Aidil-Carvalho	38656542	J Neurosci Res	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

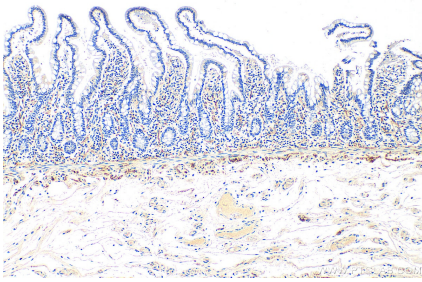
For technical support and original validation data for this product please contact:

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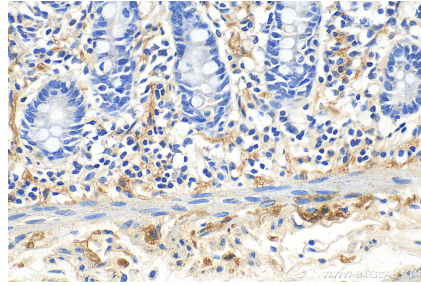
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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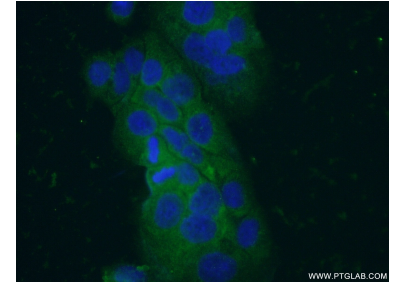
## Selected Validation Data



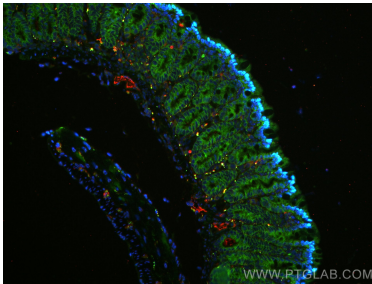
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 16233-1-AP (VIP antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



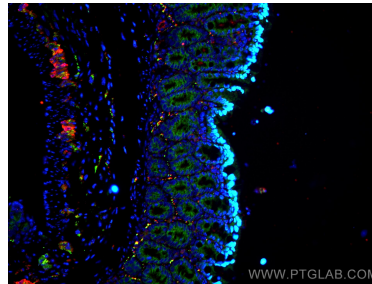
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 16233-1-AP (VIP antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed COLO 320 cells using 16233-1-AP (VIP antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse colon tissue using VIP antibody (16233-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), Calretinin antibody (66496-1-Ig, Clone: 2D7A9, red).



Immunofluorescent analysis of (4% PFA) fixed mouse colon tissue using VIP antibody (16233-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), Calretinin antibody (66496-1-Ig, Clone: 2D7A9, red).