

DESCRIPTION

Species Reactivity	Human
Specificity	Detects recombinant human VIP in direct ELISAs. It does not detect the C-terminal region (aa 145-152).
Source	Monoclonal Mouse IgG ₁ Clone # 576721
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	KLH-coupled human VIP synthetic peptides HSDAVFTDNYTR and KYLNSILN
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

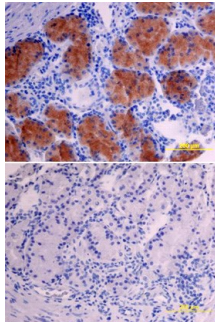
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Immunohistochemistry	8-25 µg/mL	See Below

DATA

Immunohistochemistry



VIP in Human Stomach. VIP was detected in immersion fixed paraffin-embedded sections of human stomach array using Mouse Anti-Human VIP Monoclonal Antibody (Catalog # MAB6079) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Lower panel shows a lack of labeling if primary antibodies are omitted and tissue is stained only with secondary antibody followed by incubation with detection reagents. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Vasoactive intestinal peptide (VIP) is a 28 amino acid (aa) peptide that exerts wide-ranging effects in embryonic and adult tissues through interactions with the 7-transmembrane spanning receptors VIP R1 and VIP R2. The VIP proprotein is proteolytically processed to release bioactive VIP as well as the bioactive peptides PHV and PHM. VIP regulates appetite and feeding behavior and stimulates insulin and glucagon secretion in pancreatic islet cells. It also regulates astrocyte function, multiple aspects of cardiac function, and TLR function in innate immune responses. Mature VIP shares 100% aa sequence identity with mouse and rat VIP.