

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
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Immunohistochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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