

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human VIP R2 in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 476031
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human VIP R2 Glu24-Ile438 Accession # P41587
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.

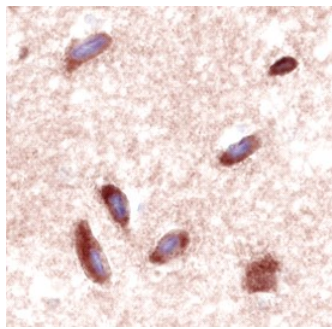
APPLICATIONS

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 R2 in Human Brain. VIP R2 was detected in immersion fixed paraffin-embedded sections of human brain (caudate nucleus) using 25 µg/mL Mouse Anti-Human VIP R2 Monoclonal Antibody (Catalog # MAB5416) overnight at 4 °C. Tissue was stained with the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counter-stained with hematoxylin (blue). 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

Human VIP R2 (Vasoactive intestinal polypeptide receptor 2) is a 47 kDa (predicted) seven transmembrane receptor that belongs to the G protein coupled receptor 2 family of proteins. In addition to the seven transmembrane regions, the mature chain also contains in its first extracellular region a hormone receptor domain (aa 49-114), which includes three N-linked glycosylation sites. Human VIP R2 shares 85% aa identity with mouse and rat VIP R2. VIP R2 is expressed predominantly in skeletal muscle and to a lesser extent in the brain, heart, pancreas, and placenta. VIP R2 is coupled to a cAMP mediated signal transduction pathway and binds VIP and pituitary adenylate cyclase activating polypeptide (PACAP).