Human Neurophysin II Antibody

Monoclonal Mouse IgG_{2B} Clone # 62865

Catalog Number: MAB009

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Neurophysin II in direct ELISAs.
Source	Monoclonal Mouse IgG_{2B} Clone # 62865
Purification	Protein A or G purified from ascites
Immunogen	Synthetic peptide containing human Neurophysin II Accession # P01186
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 either lyophilized or as a 0.2 µm filtered solution in PBS.

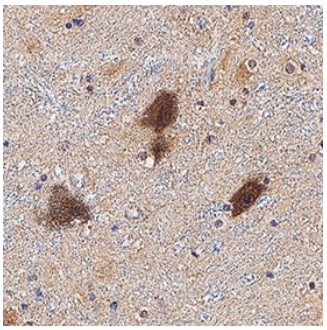
APPLICATIONS

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	5-25 µg/mL	See Below

DATA

Immunohistochemistry



Neurophysin II in Human Brain Hippocampus Tissue. Neurophysin II was detected in immersion fixed paraffin-embedded sections of human brain hippocampus tissue using Mouse Anti-Human Neurophysin II Monoclonal Antibody (Catalog # MAB009) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to neurons. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

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.** • 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

Arginine vasopressin (AVP)/Neurophysin 2 is a hormone synthesized in neurons in the hypothalamus that specifically binds vasopressin. Vasopressin has a direct antidiuretic action on the kidney and causes vasoconstriction of the peripheral vessels. Vasopressin regulates the tonicity of body fluid by causing the kidneys to reabsorb solute-free water and returning it to the circulation from the tubules of the nephron. AVP released in high concentrations may also raise blood pressure by inducing vasoconstriction. The stimulus for secretion of vasopressin is increased osmolality of the plasma which is monitored by the hypothalamus. Vasopressin is often used to manage anti-diuretic hormone deficiency.

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