

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse Orexin A/Hypocretin-1. In dot blots, no cross-reactivity with recombinant human Orexin B is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 97505
Purification	Protein A or G purified from ascites
Immunogen	KLH-coupled human Orexin A/Hypocretin-1 synthetic peptide Accession # O43612
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.

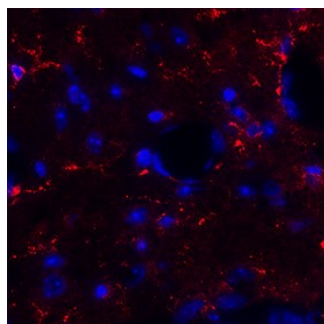
APPLICATIONS

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	Immersion fixed paraffin-embedded sections of Mouse Hypothalamus

DATA

Immunohistochemistry



Orexin A/Hypocretin-1 in Mouse Hypothalamus. Orexin A/Hypocretin-1 was detected in immersion fixed paraffin-embedded sections of Mouse Hypothalamus using Mouse Anti-Human/Mouse Orexin A/Hypocretin-1 Monoclonal Antibody (Catalog # MAB763) at 5 µg/mL overnight at 4 °C. Tissue was stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to synaptic boutons. 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. <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

Orexin A and Orexin B are neuropeptide hormones derived from proteolytic processing of the Orexin precursor protein. Orexins are released from the hypothalamus and are involved in the regulation of sleeping patterns, feeding, and metabolism. The synthetic peptide immunogen corresponds to amino acid 34 - 66 of the human Orexin precursor (accession #O43612) (1).

References:

1. Sakurai, T. *et al.* (1998) *Cell* **92**:573.