**DESCRIPTION**

**Species Reactivity**  
Human/Mouse/Rat

**Specificity**  
Detects human, mouse, and rat Orexin A/Hypocretin-1. In dot blots, no cross-reactivity with recombinant human Orexin B is observed.

**Source**  
Monoclonal Mouse IgG, 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.

<table>
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<tr>
<th>Recommended Concentration</th>
<th>Sample</th>
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<tr>
<td>8-25 µg/mL</td>
<td>Perfusion fixed frozen sections of rat brain (hypothalamus)</td>
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</table>

**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**

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:**