**Opioid Receptor-Mu (MOR) Antibody**

<table>
<thead>
<tr>
<th>Catalog #</th>
<th>24216</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lot #</td>
<td>1332001</td>
</tr>
<tr>
<td>Form</td>
<td>Lyophilized whole serum (100 µL)</td>
</tr>
<tr>
<td>Host</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Reacts With</td>
<td>Cat, Chicken, Frog, Guinea Pig, Human, Monkey, Mouse, Rat, Starling, Tadpole</td>
</tr>
</tbody>
</table>

### INSTRUCTIONS

**Preparation**

Do not reconstitute until ready to use since the product is most stable when lyophilized. The product does not need to be kept cooled during shipping; however, for long-term storage, store lyophilized antibody until ready to use at -15°C or lower. Reconstitute with 100 µL of distilled or deionized water. After reconstitution, use immediately or refrigerate at 2º–8ºC. To avoid freeze/thaw cycles, dilute unused antibody with PBS or Tris buffer at a dilution no higher than 1/10, then aliquot, and freeze at -15°C or lower.

Refer to the Instruction Manual available online at www.immunostar.com for information on tissue preparation, immunostaining techniques, troubleshooting, and formulas.

### APPLICATION

**IHC Quality Control**

The ImmunoStar Mu Opioid Receptor antiserum was quality control tested using standard immunohistochemical methods. The antiserum demonstrates significant labeling of rat caudate putamen and spinal cord (dorsal horn) using indirect immunofluorescent and biotin/avidin-HRP techniques. Preadsorption with MOR peptide (384–398) at 10 µg/ml completely eliminates labeling. The specificity of the antiserum was determined by immunolabeling of transfected cells and immunoisolation studies.

**Tissue**

- Rat caudate putamen and spinal cord (dorsal horn)

**Perfusion Fixation**

- Fixative: 4% paraformaldehyde in 0.1 M phosphate buffer, pH 7.4; 500 mL over 20-30 min.
- Post Fixation: 1.5 hours at 4°C in 4% paraformaldehyde in 0.1 M phosphate buffer, pH 7.4.

**Sections**

- 10 µm cryostat

**Tissue Incubation**

- 18–24 hours at 2º–8°C

**Detection System**

- Use Bn/Av-HRP or Cy3 reagents at dilutions recommended by the manufacturers.

**Suggested Dilution**

- 1/6,000–1/10,000 in PBS/0.3% Triton X-100 – Bn/Av-HRP immunohistochemistry

### NOTES

**Special Instructions**

It is recommended that the researcher perform a primary antibody dilution series using our dilution recommendations as a guideline. Note that a change in the fixation or buffering system from our protocol may change the configuration of the protein which could alter the reactivity with the tissue tested.

**Storage**

- After reconstitution, use immediately or refrigerate at 2º–8ºC up to 2 days. For long-term storage aliquot and freeze at -15°C or lower. Avoid repeated freeze/thaw cycles.

**Concentration**

- Not applicable. Antibody concentration is only relevant for purified antibodies.

**Journal References**

www.immunostar.com/publications