**Met Enkephalin**

**Data Sheet**

<table>
<thead>
<tr>
<th>Catalog Number:</th>
<th>RA21006</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Type:</td>
<td>Affinity Purified Antibody</td>
</tr>
<tr>
<td>Host:</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Species Reactivity:</td>
<td>Rat</td>
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<tr>
<td>Immunogen Sequence:</td>
<td>Synthetic Met⁵-Enkephalin (H-Tyr-Gly-Gly-Gly-Phe-Met-OH) conjugated through N-terminal tyrosine to BSA.</td>
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<tr>
<td>Format:</td>
<td>Liquid -PBS with 0.1% Sodium Azide. Concentration of 1 mg/ml.</td>
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</tbody>
</table>

**Application Notes**

**Sensitivity**
10% inhibition of binding (determined by RIA) is 100 - 200 pg. IC₅₀ 1-3ng.

**Cross-reactivity (%)**
- Met⁵-Enkephalin: 100
- Leu⁵-Enkephalin: 5.8
- beta-Endorphin: 0.01
- beta-Lipotropin: 0.01

**Immunofluorescence Protocol:**
Anesthetize animals and perfuse them transcardially as follows:
- a. flush with cold (4°C) oxygenated Calcium free Tyrodes;
- b. perfuse with 4% formaldehyde in 0.16 M phosphate buffer at pH 6.9;
- c. perfuse with 10 % sucrose solution in 0.1 M phosphate buffer (pH 7.2).

**Sections:**
Cut 5-30 µm tissue sections by using a cryostat and mount them on subbed histological slides.

1. Dilute Met⁵-Enkephalin antiserum with 0.1M phosphate buffered saline (PBS, pH 7.4) containing 1% bovine serum albumin and 0.01 Triton X-100.
2. Incubate sections overnight at +4°C and then wash in PBS (three times for 10 minutes).
3. Incubate for 1 hour at room temperature with donkey anti-rabbit secondary antibodies conjugated to fluorescent probes such as fluorescein isothiocyanate (FITC), Rhodamine Red X: cyanine 3.18 (Cy3) or cyanine 5.18 (Cy5) (for reference see a catalogue of Jackson ImmunoResearch Laboratories, Inc., West Grove, PA).
4. Wash in PBS (three times for 10 minutes) and mount them using Neuromics iBrite Plus anti-fade mounting medium (cat#: SF40000). Staining can be visualized by using both conventional and confocal microscopy.

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References