



Leu-Enkephalin

Data Sheet

Catalog Number: RA21007 Host: Rabbit

Product Type: Affinity Purified Antibody Species Reactivity: Rat

Immunogen Sequence: Synthetic Leu⁵-enkephalin (H-Tyr- Format: Liquid -PBS with 0 .1%

Gly-Gly-Phe-Leu-OH) conjugated Sodium Azide. through N-terminal tyrosine to BSA. Concentration of 1

mg/ml.

Applications: For immunofluorescence cytochemistry 1:1000
For indirect avidin-biotin immunocytochemistry 1:1000 - 1:10,000.

To make avail-both initial ocytochemistry 1.1000 - 1.10,000.

*Dilutions listed as a recommendation. Optimal dilution should be determined by

investigator.

Storage: Store frozen. Aliquot as undiluted antisera and immediately place at -20°C. Antisera may

have become trapped in top of vial during shipping. Centrifugation of vial is recommended before opening. Stable for at least 6 months at -20°C. Repeated freeze/thaw cycles

compromise the integrity of the antiserum.

Application Notes

Sensitivity

10% inhibition of binding (determined by RIA) is 3-5 pg IC_{50} 30-50 pg.

Cross-reactivity (%)

Leu⁵-Enkephalin100Met⁵-Enkephalin0.93beta-Endorphin0.01beta-Lipotropin0.01

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.

- Dilute Leu⁵-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).
- 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).
- 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

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