



IHC image of rat globus pallidus with nickel preparation.

## Methionine Enkephalin Antibody

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| <b>Catalog #</b>   | <b>20065</b>   | <b>Product type</b> | Primary antibodies   |
| <b>Lot #</b>       | <b>1421001</b>   | <b>Clonality</b>    | Polyclonal   |
| <b>Form</b>        | Lyophilized whole serum (100 µL)   | <b>Isotype</b>      | IgG  |
| <b>Host</b>        | Rabbit   | <b>Preservative</b> | ≤ 0.09% sodium azide   |
| <b>Reacts With</b> | Bird, Blowfly, Bovine, Cat, Chicken, Cockroach, Crab, Dog, Fish, Frog, Gerbil, Guinea Pig, Hamster, Human, Lamprey, Leech, Moth, Monkey, Mouse, Octopus, Parrot, Pig, Pigeon, Rabbit, Rat, Salamander, Salmon, Sea Bass, Shrew, Snail, Starling, Tapeworm, Turtle, Zebra Finch | <b>Antigen</b>      | Synthetic methionine enkephalin coupled to bovine thyroglobulin (BTg) with glutaraldehyde. |

### INSTRUCTIONS

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| <b>Preparation</b> | <p>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 2°–8°C. 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.</p> <p>Refer to the Instruction Manual available online at <a href="http://www.immunostar.com">www.immunostar.com</a> for information on tissue preparation, immunostaining techniques, troubleshooting, and formulas.</p> |
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### APPLICATION

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| <b>IHC Quality Control</b> | The antibody produces significant indirect immunofluorescent staining and significant biotin-avidin/HRP staining at 1/2,000 dilution in rat globus pallidus and amygdala. Staining is completely eliminated by pretreatment with 5 µg of methionine enkephalin per mL of diluted antiserum. Pretreatment with 5 µg of leucine enkephalin per mL of diluted antiserum only partially blocks staining, and as leucine enkephalin concentration goes up, more diluted antiserum is blocked. |
| <b>Absorption Control</b>  | Met Enk 5 µg/mL diluted antiserum  |
| <b>Tissue</b>              | Rat globus pallidus and amygdala   |
| <b>Perfusion Fixation</b>  | <ul style="list-style-type: none"> <li>Fixative: 4% paraformaldehyde in 0.1 M Phosphate buffer, pH 7.4; 500 ml over 20–30 min.</li> <li>Post Fixation: 2 hr. at 4°C in 4% paraformaldehyde in 0.1 M phosphate buffer pH 7.4.</li> </ul>  |
| <b>Sections</b>            | 10 µm cryostat   |
| <b>Tissue Incubation</b>   | 18–24 hours at 2°–8°C  |
| <b>Detection System</b>    | Use Cy3 or Bn-AV/HRP reagents at dilutions recommended by the manufacturers.   |
| <b>Suggested Dilution</b>  | 1/2,000–1/5,000 in PBS/0.3% Triton X-100 – Bn/AV-HRP immunohistochemistry  |

### NOTES

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| <b>Special Instructions</b> | 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. |
| <b>Storage</b>              | After reconstitution, use immediately or refrigerate at 2°–8°C up to 2 days. For long-term storage, aliquot antibody and freeze at -15°C or lower. Avoid repeated freeze/thaw cycles.   |
| <b>Concentration</b>        | Not applicable. Antibody concentration is only relevant for purified antibodies.  |
| <b>Journal References</b>   | <a href="http://www.immunostar.com/literature/">www.immunostar.com/literature/</a>  |

For Laboratory Reagent Use Only. Analytical and performance characteristics are not established.

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