



## Anti Met-Enkephalin-Arg<sup>6</sup>-Gly<sup>7</sup>-Leu<sup>8</sup> Serum

Cat. No. YII-Y140-EX      Lot No. 017171004

**Description:** This antiserum was raised in a rabbit by immunization with a *Ascaris suilla* protein conjugate of synthetic met-enkephalin-arg<sup>6</sup>-gly<sup>7</sup>-leu<sup>8</sup> peptide. The product vial contains 50 µL of the titled antiserum obtained by lyophilizing its 0.001M phosphate buffer (pH 7.0, 0.5mL) solution. It can be used for immunoassay, immuno-histochemistry or any other immunoreaction with met-enkephalin-arg<sup>6</sup>-gly<sup>7</sup>-leu<sup>8</sup>.

**Immunogen:** Synthetic met-enkephalin-arg<sup>6</sup>-gly<sup>7</sup>-leu<sup>8</sup>-*Ascaris suilla* protein conjugate **Host:** Rabbit

**Amino Acid Sequence of Met-Enkephalin-Arg<sup>6</sup>-Gly<sup>7</sup>-Leu<sup>8</sup><sup>1)</sup>:** YGGFM RGL

**Product Form:** Lyophilized unpurified serum **Size:** 50 µL

**Reconstitution:** Reconstitute the product with 0.5mL of 0.01M PBS (pH 7.0) to make a 10 fold diluted stock solution. If it is stored in a refrigerator, add moderate antiseptic to the solution (e.g. NaN3 0.1%).

**Storage:** The product will be stable for over one year if it be stored at -20°C to -80°C until opened. Upon reconstitution, the antiserum solution must be stored at 2°C to 8°C and used within one month. Repeated freezing-thawing should be avoided.

**Suggested Working Dilution Range:** 1:8,000 (final dilution~1:56,000) for radioimmunoassay; 1:1,000- 5,000 for immunohistochemistry (frozen or paraffin sections). Optimal dilution should be determined by each laboratory for each application.

**Specificity** (based on radioimmunoassay): Met-enkephalin-arg<sup>6</sup>-gly<sup>7</sup>-leu<sup>8</sup> 100%, phe<sup>4</sup>-met<sup>5</sup>-arg<sup>6</sup>-gly<sup>7</sup>-leu<sup>8</sup> < 0.001%, met-enkephalin 0%, leu-enkephalin 0%, α-endorphin 0%, β-endorphin 0%,

**Positive Control** (immunohistochemistry): Rat adrenal gland and colon

**Species Tested:** Bovine, guinea pig, dog, cat, hamster, human, porcine, monkey, rat<sup>2,3,4,5)</sup>

### REFERENCES:

- 1) P.L. Kilpatrick, B.N. Jones et al., Identification of the octapeptide [Met] enkephalin-Arg<sup>6</sup>-Gly<sup>7</sup>-Leu<sup>8</sup> in extracts of bovine adrenal medulla. Biochemical Biophysical Research Communications 103:697-705, 1981
- 2) S. Kobayashi, N. Yanaihara et al., Immunocytochemical demonstration of the co-storage of noradrenaline with met-enkephalin-arg<sup>6</sup>-phe<sup>7</sup> and met-enkephalin-arg<sup>6</sup>-gly<sup>7</sup>-leu<sup>8</sup> in the carotid body chief cells of the dog. Archivum Histologicum Japonicum 46: 713-722, 1983
- 3) S. Kobayashi, N. Yanaihara et al., Met-enkephalin-arg-gly-leu-like immunoreactivity in adrenal chromaffin cells and carotid body chief cells of the dog and monkey. Biomedical Research 4: 201-210, 1983
- 4) K. Nihei, T. Fujita et al., Preproenkephalin A occurs in the entero-chromaffin (EC) cells of the porcine intestine: an immunocytochemical study using antisera to met-enkephalin-arg<sup>6</sup>-gly<sup>7</sup>-leu<sup>8</sup> and to serotonin. Biomedical Research 4: 393-398, 1983
- 5) S. Kobayashi, N. Yanaihara et al., An immunohistochemical study on the co-storage of met-enkephalin-arg<sup>6</sup>-gly<sup>7</sup>-leu<sup>8</sup> and met-enkephalin-arg<sup>6</sup>-phe<sup>7</sup> with adrenaline and/or noradrenaline in the adrenal chromaffin cells of the rat, dog, and cat. Biomedical Research 4: 433-442, 1983

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