

**Anti Urocortin (3-40) (Mouse, Rat) Serum    Cat. No. Y360    Lot No. 90110122**

**Description:** This antiserum was raised in a rabbit by immunization with a carrier free synthetic urocortin (3-40) (mouse, rat) peptide. The product vial contains 50  $\mu$ L of the titled antiserum obtained by lyophilizing its 0.001 M phosphate buffer (pH 7.0, 0.5mL) solution. It can be used for immunoassay, immunohistochemistry or any other immunoreaction with urocortin (mouse, rat).

**Immunogen:** Synthetic urocortin (3-40) (mouse, rat), carrier free

**Host:** Rabbit

**Amino Acid Sequence of urocortin (3-40) (mouse, rat)<sup>1)</sup>:**

340  
DDPPLSIDLT FHLRLTLEL ARTQSQRERA EQNRIIFDSV-NH2

**Product Form:** Lyophilized unpurified serum

**Size:** 50  $\mu$ L

**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. NaN<sub>3</sub> 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:** 1:1,500 (final dilution ~1:10,500) for radioimmunoassay<sup>2)</sup>; 1: 1,000-5,000 for immunohistochemistry (frozen and paraffin section)<sup>3,4,5)</sup>. Optimal dilution should be determined by each laboratory for each application.

**Specificity** (based on radioimmunoassay): Urocortin (3-40) (mouse, rat)100%, urocortin (mouse, rat) 164.7%, urocortin (human) ~100%, urocortin (30-40) (mouse, rat) 100%, urocortin (7-40) (mouse, rat) 260%, urocortin (1-22) (mouse, rat) < 0.1%, CRF (human, mouse, rat) 0%, urotensin I (carp) < 0.1%

**Positive Control** (immunohistochemistry): Rat pituitary gland

**Species Tested:** Rat

**REFERENCES:**

- 1) J.Vaughan, C.Donaldson et al., Urocortin, a mammalian neuropeptide related to fish urotensin I and to corticotropin-releasing factor. *Nature*, 378: 287-292, 1995
- 2) K. Iguchi, N Yanaihara et al., Urocortin, its synthesis, antibody production, and biological activity. *ACTH Related Peptides*, 8:53-59, 1997
- 3) Y. Hara, Y. Ueta et al., Increase of urocortin-like immunoreactivity in the rat hypothalamo-neurohypophysial system after salt loading and hypophysectomy. *Neuroscience Letters* 227: 127-130, 1997
- 4) H. Yamamoto, T. Maeda et al., Urocortin-like immunoreactivity in the substantia nigra, ventral tegmental area and Edinger-Westphal nucleus of rat. *Neuroscience Letters* 243: 21-24, 1998
- 5) T. Nishikimi, A. Miyata et al., Urocortin, a member of the corticotropin-releasing factor family, in normal and diseased heart. *American Journal of Physiology - Heart and Circulatory Physiology* 279: H3031-3039, 2000

**FOR RESEARCH LABORATORY USE ONLY**  
DO NOT USE ORGANIC SOLVENTS FOR DISSOLVING ANTISERUM

  
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