



## Anti Nociceptin/Orphanin FQ Serum

**Cat. No. YII-Y430-EX      Lot No. 307111209**

**Description:** This antiserum was raised in a rabbit by immunization with a carrier free synthetic Nociceptin/ Orphanin FQ peptide whose amino acid sequence is strictly conserved across mammalian species (bovine, mouse, rat, and human). The product vial contains 50 µL of the titled compound 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 Nociceptin/Orphanin FQ.

**Immunogen:** Synthetic Nociceptin/Orphanin FQ (human, rat), carrier free **Host:** Rabbit

**Amino Acid Sequence of Nociceptin/Orphanin FQ (human, rat)<sup>1)</sup>:**  
FGGFTGARKS ARKLANQ

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

**Reconstitution:** Reconstitute the product with 0.5mL of 0.01M PBS (pH7.0) to make a 10 fold diluted stock solution. If it is stored in a refrigerator, please add moderate antiseptic to the solution (e.g. 0.1% of NaN<sub>3</sub>).

**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; 1:500-1,000 for immunohistochemistry (frozen section). Optimal dilution should be determined by each laboratory for each application.

**Specificity** (based on radioimmunoassay): Nociceptin 100%, dynorphin A %, b-endorphin 0%

**Positive Control** (immunohistochemistry): Rat brain<sup>2)</sup>.

### **REFERENCES:**

- 1) J.C. Meunier, C. Mollereau et al., Isolation and structure of the endogenous agonist of opioid receptor-like ORL1 receptor, Nature 377:532-535, 1995
- 2) S. Kakiya, T. Murase et al., Role of endogenous nociceptin in the regulation of arginine vasopressin release in conscious rats. Endocrinology 141: 4466-4471, 2000

**FOR RESEARCH LABORATORY USE ONLY**

DO NOT USE ORGANIC SOLVENTS FOR DISSOLVING ANTISERUM

