

Anti Nociceptin/Orphanin FQ Serum

Cat. No. Y430 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 μ L 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)¹⁾:

FGGFTGARKS ARKLANQ

Product Form: Lyophilized unpurified serum

Size: 50 μ L

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 NaN₃).

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 %, β -endorphin 0%

Positive Control (immunohistochemistry): Rat brain²⁾.

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

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SCETI K.K.

DF Kasumigaseki Place, 3-6-7 Kasumigaseki, Chiyoda-ku, Tokyo 100-0013 Japan

URL: <http://www.sceti.co.jp/export/> e-mail: exp-pet@sceti.co.jp

<Manufacturer>

Yanaihara Institute Inc.

2480-1 Awakura, Fujinomiya-shi, Shizuoka 418-0011 JAPAN