

Nociceptin antibody

□ Cat # PNOC11-A

Rabbit anti-Nociceptin antibody

SIZE: 100 µg

Nociceptin/orphanin FQ (N/OFQ), a 17-amino acid neuropeptide, is the endogenous ligand for the Nociceptin receptor (NOP, ORL-1), and initiates its function to act on numerous brain activities such as pain sensation and fear learning. It is derived from the prepronociceptin protein, as are a further 2 peptides, nocistatin & Nocll, which inhibit the N/OFQ receptor function. Nociceptin binds to NOP in neurons where it reduces the activation of adenylate cyclase, reduces the activity of calcium channels, and opens potassium channels. Nociceptin itself acts as a potent anti-analgesic, effectively counteracting the effect of pain-relievers.

Source of Antigen or Antibodies

Uniprot: Q64387

Host: Rabbit

Clonality: Polyclonal

Purification: Ammonium sulfate followed by peptide affinity purification

Immunogen: Nociceptin synthetic peptide (FGGFTGARKSARKLANQ)

Species Reactivity: Human

Cross reactivity: The peptide used as an immunogen is highly conserved across various mammals including Human, Mouse, Rat, Monkey, Cat, Dog, Pig, Bovine, Sheep, and more not listed.

Subcellular Location: Extracellular

Recommended Secondary Antibody: Goat anti-Rabbit IgG-HRP (**ADI cat#20320**)

Negative Control: Non-immune Rabbit IgG (**ADI cat# 20009-1**).

Form & Storage of Antibodies

□ **Affinity purified IgG**

Concentration: 0.5 mg/ml

Volume: 200 µl

Supplied in PBS pH 7.4 + 0.1% BSA

The antibody can be made available carrier free or conjugated to HRP, Biotin, or FITC on request

□ **Lyophilized powder**

Reconstitute powder in 200 µl distilled water to 0.5 mg/ml

Storage:

Short-term: 4°C for 1 month

Long-term: at -20°C or below in suitable aliquots after reconstitution for 1 year. Do not expose to multiple freeze/thaw cycles or store working, diluted solutions.

Recommended Usage

ELISA: Assay dependent concentration. Typically between 0.1-2.0 µg/ml for capture/detection antibodies

Western Blotting: 0.5-2 µg/ml

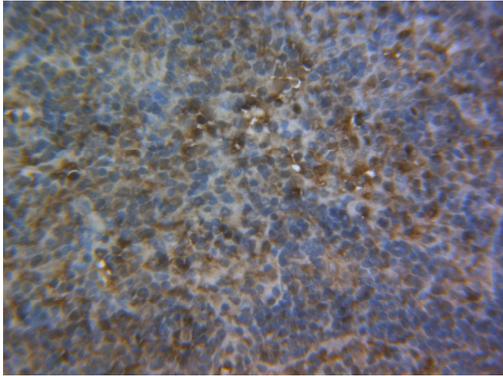
Immunohistochemistry: 1-10 µg/ml. QC tested using 10 mM sodium citrate antigen retrieval. The antibody may work better with other retrieval solutions or no retrieval.

Above concentrations are a *suggestion*, user's must optimize their assay based on their own conditions. The antibody may work in other applications such as Immunocytochemistry or IP. These methods have not been tested by ADI.

**This product is for In vitro research use only.*

Related materials also available from ADI

Catalog#	Description
OPRL11-A	Rabbit anti-Mouse Nociceptin Receptor antibody
PNOC11-A	190109IA



4 μ m FFPE Rat Lymph node: Lung tissue slide was heated for 20 minutes at 60°C then deparaffinized. Antigen retrieval was performed for 10 minutes at 95°C in a microwave using 10 mM pH 6, sodium citrate buffer. The slide was cooled for 20 minutes at room temperature then blocked for 30 minutes with 2.5% normal goat serum. **PNO11-A** was diluted to 5 μ g/ml in TBST+0.1% BSA and incubated overnight at 4°C (Inset represents the immunogen peptide absorbed antibody incubation). The slide was washed twice and then incubated with 3% hydrogen peroxide for 10 minutes to quench endogenous peroxidase. The slide was washed then incubated with Goat anti-Rabbit IgG HRP polymer detection reagent for 30 minutes at room temperature. The slide was washed twice and incubated with DAB for 3 minutes, washed with distilled water, then counterstained for 1 minute with Gil's II Hematoxylin before being coverslipped.