

Nociceptin receptor Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54185

Specification

Nociceptin receptor Polyclonal Antibody - Product Information

| | |
|-------------------|------------------------|
| Application | WB, IF, IHC-P |
| Primary Accession | P35377 |
| Reactivity | Rat, Pig, Dog, Bovine |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 40491 |

Nociceptin receptor Polyclonal Antibody - Additional Information

Gene ID 18389

Other Names

Nociceptin receptor, K3 opiate receptor, Kappa-type 3 opioid receptor, KOR-3, ORGC, Orphanin FQ receptor, Oprl1, Oor, Oprl

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Nociceptin receptor Polyclonal Antibody - Protein Information

Name Oprl1

Synonyms Oor, Oprl

Function

G-protein coupled opioid receptor that functions as a receptor for the endogenous neuropeptide nociceptin. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors. Signaling via G proteins mediates inhibition of adenylate cyclase activity and calcium channel activity. Arrestins modulate signaling via G proteins and mediate the activation of alternative signaling pathways that lead to the activation of MAP kinases. Plays a role in modulating nociception and the perception of pain. Plays a role in the regulation of locomotor activity by the neuropeptide nociceptin.

Cellular Location

Cell membrane; Multi-pass membrane protein. Cytoplasmic vesicle. Note=Ligand binding leads to receptor internalization into cytoplasmic vesicles, decreasing the amount of available receptor at the cell surface. Internalization requires phosphorylation at Ser-360. Can recycle to the cell

membrane (By similarity).

Tissue Location

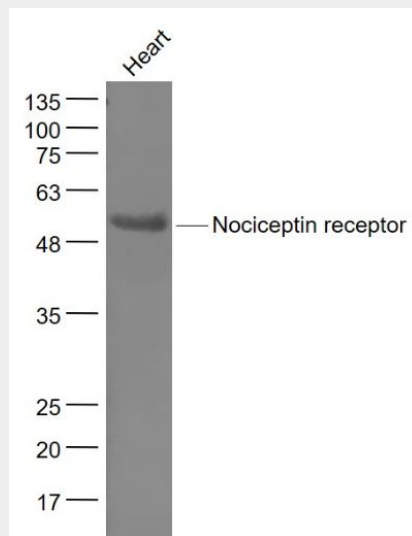
In the brain, isoform KOR3 and isoform KOR3C are most abundant in hypothalamus and periaqueductal gray. Isoform KOR3A is highly expressed in cortex, striatum and brainstem. Isoform KOR3D is highly expressed in cerebellum, hypothalamus and brainstem. Detected in spleen lymphocytes.

Nociceptin receptor Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Nociceptin receptor Polyclonal Antibody - Images



Sample:

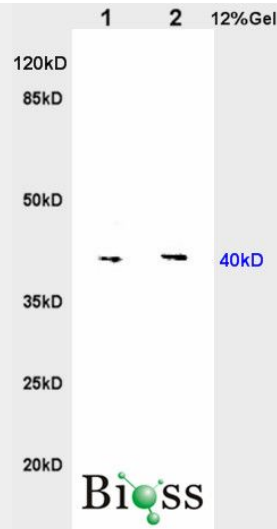
Heart (Mouse) Lysate at 40 ug

Primary: Anti- Nociceptin receptor (bs-0181R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 40 kD

Observed band size: 52 kD



Sample:

Heart(Rat) lysate at 30ug;

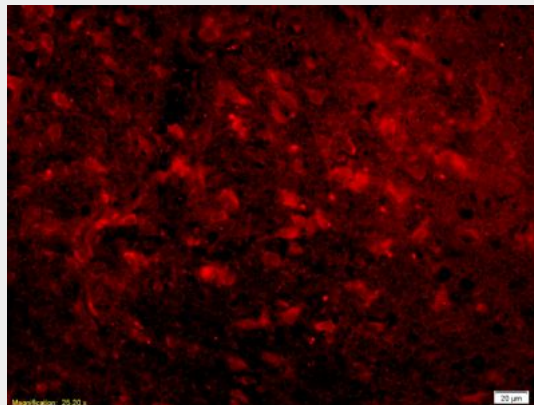
Brain(Rat) lysate at 30ug;

Primary: Anti-Nociceptin receptor (bs-0181R) at 1:200 dilution;

Secondary: HRP conjugated Goat-Anti-Rabbit IgG(bs-0295G-HRP) at 1: 3000 dilution;

Predicted band size : 40kD

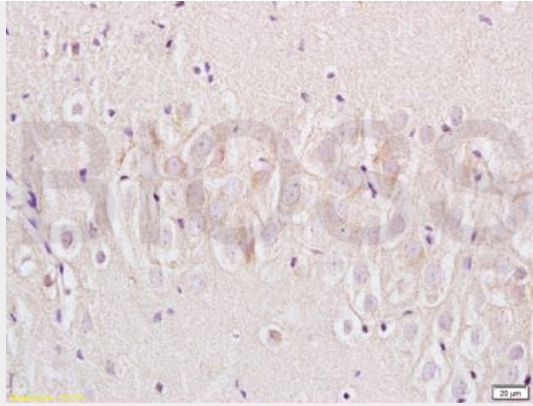
Observed band size : 40kD



Immunofluorescence Tissue/cell: human placenta tissue;4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-Nociceptin receptor Polyclonal Antibody, Unconjugated(bs-0181R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3conjugated (bs-0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C.



□□□□IHC□Immunohistochemistry Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-Nociceptin receptor Polyclonal Antibody, Unconjugated(bs-0181R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining