

**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, Cow**  
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) with 1% BSA, 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.

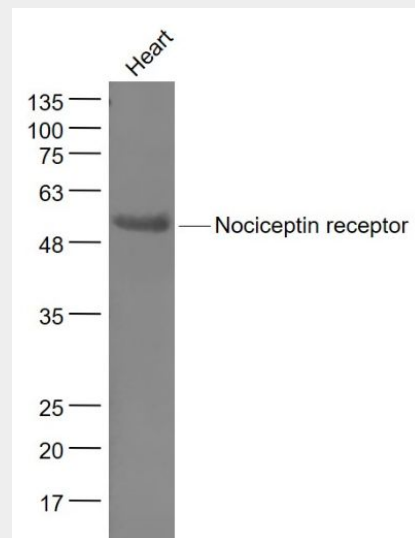
**Nociceptin receptor Polyclonal Antibody - Protein Information**

**Name Oprl1**

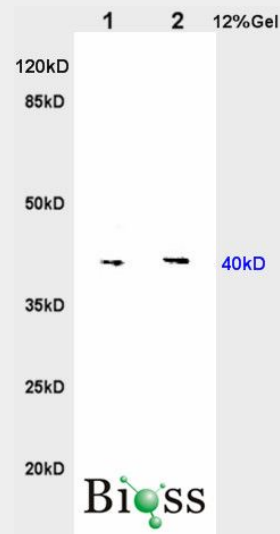
**Synonyms Oor, Oprl**

**Function**

G-protein coupled opioid receptor that functions as 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



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;

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

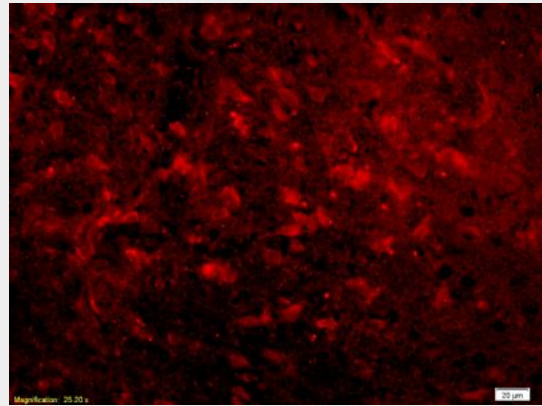
In the brain, isoform KOR3 and isoform KOR3C are most abundant in hypothalamus and periaqueductal gray. Isoform KOR3A is highly expressed in cortex, striatum and brainstem. Isoform KOR3D is highly expressed in cerebellum, hypothalamus and brainstem. Detected in spleen lymphocytes.

### 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](#)

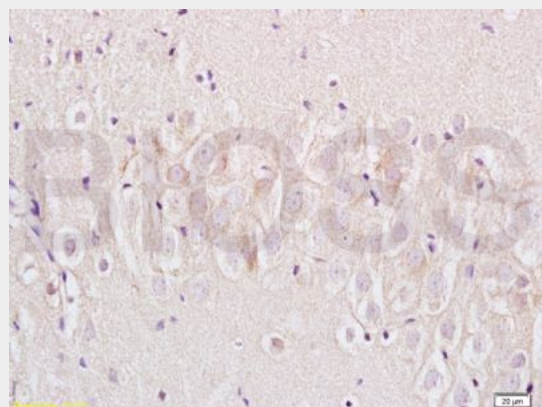
Brain(Rat) lysate at 30ug;  
Primary: Anti-Nociceptin receptor (bs-0181R) at 1:200 dilution;  
Secondary: HRP conjugated Goat-Anti-Rabbit IgG(bs-0295G-HRP) at 1:3000 dilution;  
Predicted band size : 40kD  
Observed band size : 40kD



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