

Nociceptin receptor Rabbit pAb

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Product Information

Application WB, IHC-P, IHC-F, IF

Primary Accession P41146

Reactivity Pig, Human, Mouse, Horse

Host Rabbit
Clonality Polyclonal
Calculated MW 40693
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived from human Nociceptin receptor

Epitope Specificity 1-47/370 **Isotype** IgG

Purity affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Cell membrane; Multi-pass membrane protein.

SIMILARITY Belongs to the G-protein coupled receptor 1 family.

Important Note This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

Background Descriptions Nociceptin receptor Receptor for the neuropeptide nocipeptin/orphanin FQ.

Has a potential role in modulating a number of brain functions, including instinctive behaviors and emotions. The activity of this receptor is mediated by G proteins which inhibits adenylyl cyclase[subcellular location] integral membrane protein. Belongs to the G-protein coupled receptor 1 family.

Additional Information

Gene ID 4987

Other Names Nociceptin receptor, Kappa-type 3 opioid receptor, KOR-3, Orphanin FQ

receptor, OPRL1, OOR, ORL1

Target/Specificity 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.

Dilution WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500

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.

Protein Information

Name OPRL1

Synonyms OOR, ORL1

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-363. Can recycle to the cell

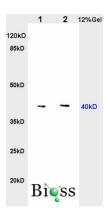
membrane

Tissue Location Detected in blood leukocytes.

Background

Nociceptin receptor Receptor for the neuropeptide nocipeptin/orphanin FQ. Has a potential role in modulating a number of brain functions, including instinctive behaviors and emotions. The activity of this receptor is mediated by G proteins which inhibits adenylyl cyclase[subcellular location] integral membrane protein. Belongs to the G-protein coupled receptor 1 family.

Images



Sample:

Heart(Rat) lysate at 30ug; Brain(Rat) lysate at 30ug;

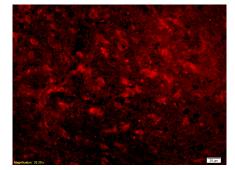
Primary: Anti-Nociceptin receptor (AP54185) at 1:200

dilution;

Secondary: HRP conjugated Goat-Anti-Rabbit

IgG(AP54185-HRP) at 1: 3000 dilution;

Predicted band size: 40kD Observed band size: 40kD



免疫荧光Immunofluorescence

组织切片:

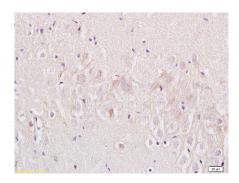
Tissue/cell: human placenta tissue;4%

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(AP54185) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG,

Cy3conjugated (AP54185-Cy3)used at 1:200 dilution for 40 minutes at 37°C.



免疫组化(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(AP54185) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.