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Nociceptin receptor Rabbit pAb

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Catalog # AP54185

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P41146
Reactivity	Human, Mouse, Rat
Predicted	Dog, Pig, Horse, Guinea Pig
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,IF=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.

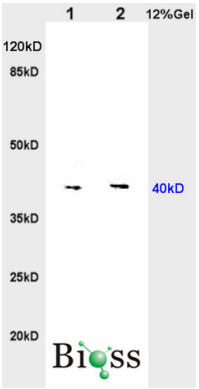
Protein Information

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

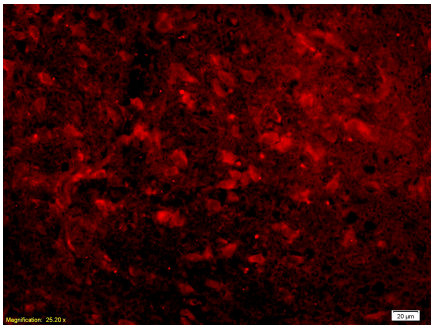
Nociceptin receptor Receptor for the neuropeptide nocipeptin/orphanin FQ. Has a potential role in modulating a number of brain functions, including instinctive behaviors and emotions. The activity of this receptor is mediated by G proteins which inhibits adenylyl cyclase[subcellular location] integral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

Images

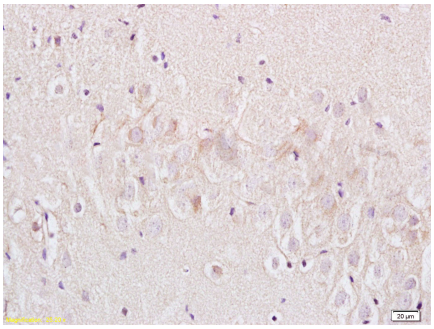


Sample:
Heart(Rat) lysate at 30ug;
Brain(Rat) lysate at 30ug;
Primary: Anti-Nociceptin receptor (AP54185) at 1:200 dilution;
Secondary: HRP conjugated Goat-Anti-Rabbit IgG(AP54185-HRP) at 1: 3000 dilution;
Predicted band size : 40kD
Observed band size : 40kD

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℃ 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℃ 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