

Rabbit Anti-NPFF1 Receptor antibody

SL12018R

Product Name NPFF1 Receptor

Chinese Name G protein-coupled receptor147 抗体

Alias NPFF1 Receptor; G Protein Coupled Receptor 147; G-protein coupled receptor 147; GPR147; Neuropeptide FF receptor 1; NPFF1; NPFF1_HUMAN; NPFF1R1; NPFFR1; RFamide related peptide receptor OT7T022; RFamide-related peptide receptor OT7T022.

Research Area Cell biology Neurobiology Signal transduction The cell membrane 受体 G protein-coupled receptor G protein signal

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human, Mouse, Rat, (predicted: Dog, Pig, Cow, Horse, Rabbit, Sheep,)

Applications WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 48kDa

Cellular localization The cell membrane

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human GPR147/NPFF1 Receptor: 151-260/430 <Extracellular>

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

PubMed

[PubMed](#)

Neuropeptide FF 1 Receptor (NPFF1 or hFF1) and Neuropeptide FF 2 Receptor (NPFF2) belong to the G protein-coupled receptor 1 family. Both NPFF1 and NPFF2 are integral membrane proteins that act as receptors for NPAF (A-18- F-amide) and NPFF (F-8-F-amide) neuropeptides. Both NPFF proteins may be activated by synthetic or naturally occurring FMRF-amide-like ligands. The receptors are mediated by association with G proteins that activate a phosphatidylinositol-calcium second messenger system. NPFF1 Receptors is highly expressed in the human hypothalamus and amygdala, indicating a possible role for NPFF1 in central autonomic and neuroendocrine control in the human brain. Based in part on NPFF2 Receptor expression in diencephalon and superficial layers of the spinal cord, NPFF2 Receptor is thought to be involved in the modulation of sensory input and opioid analgesia.

Function:

Receptor for NPAF (A-18-F-amide) and NPFF (F-8-F-amide) neuropeptides, also known as morphine-modulating peptides. Can also be activated by a variety of naturally occurring or synthetic FMRF-amide like ligands. This receptor mediates its action by association with G proteins that activate a phosphatidylinositol-calcium second messenger system.

**Product
Detail**

Subcellular Location:

Cell membrane.

Similarity:

Belongs to the G-protein coupled receptor 1 family.

SWISS:

Q9GZQ6

Gene ID:

64106

Database links:

[Entrez Gene: 64106](#) Human

[Entrez Gene: 64107](#) Rat

[Omim: 607448](#) Human

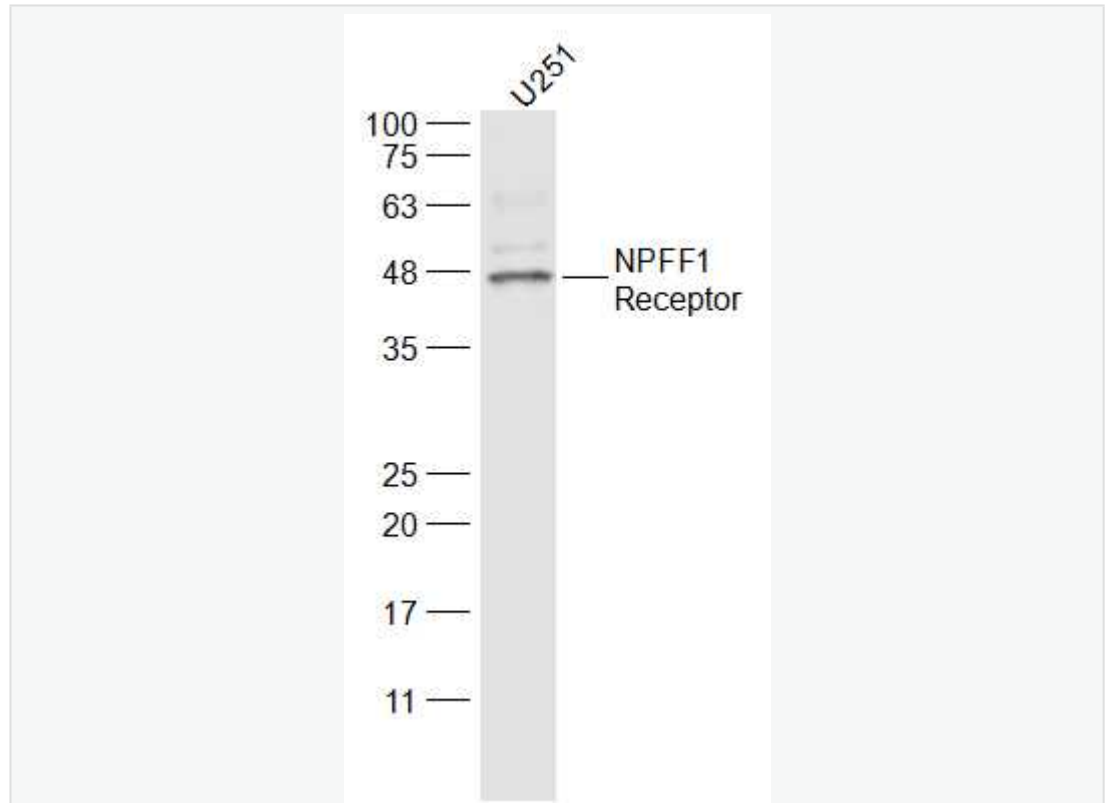
[SwissProt: Q9GZQ6](#) Human

[SwissProt: Q9EP86](#) Rat

[Unigene: 302026](#) Human

[Unigene: 64483](#) Rat

**Product
Picture**



Sample:

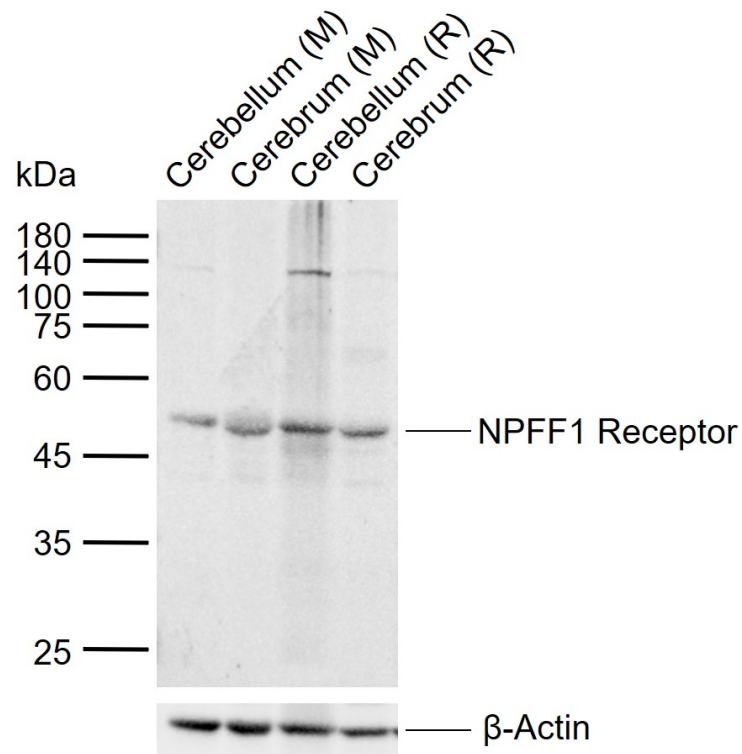
U251(Human) Cell Lysate at 30 ug

Primary: Anti-NPFF1 Receptor (SL12018R) at 1/300 dilution

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

Predicted band size: 48 kD

Observed band size: 48 kD



Sample:

Lane 1: Mouse Cerebellum tissue lysates

Lane 2: Mouse Cerebrum tissue lysates

Lane 3: Rat Cerebellum tissue lysates

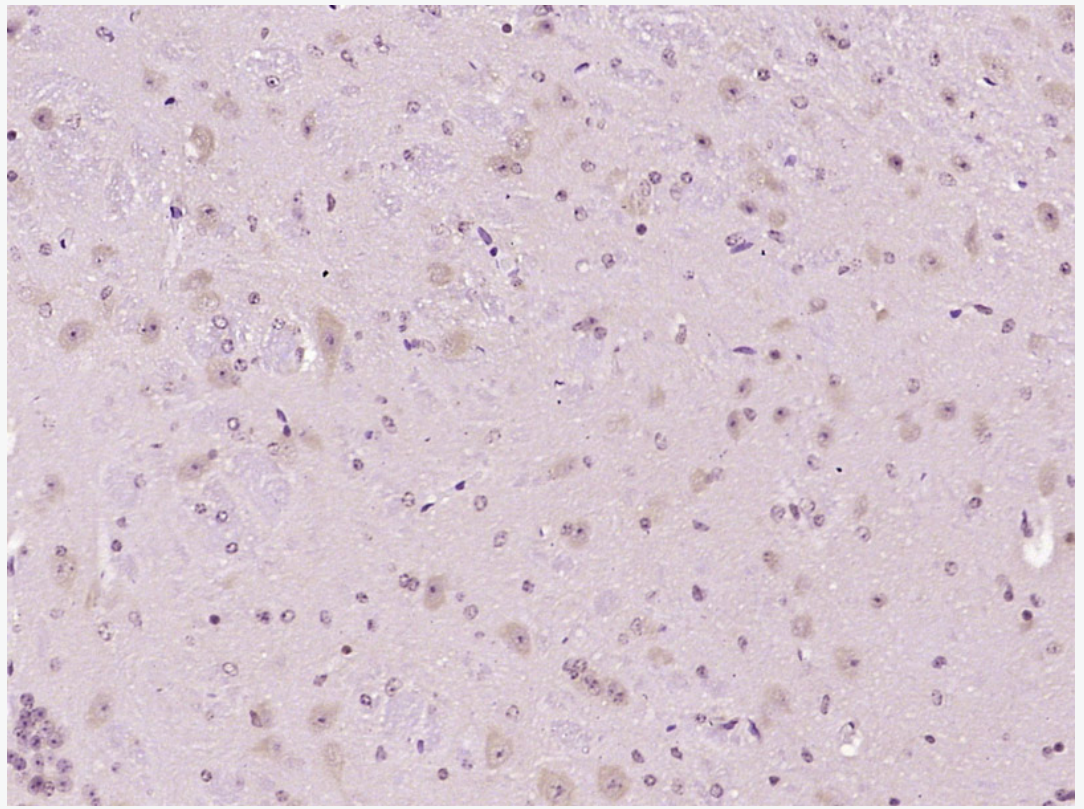
Lane 4: Rat Cerebrum tissue lysates

Primary: Anti-NPFF1 Receptor (SL12018R) at 1/1000 dilution

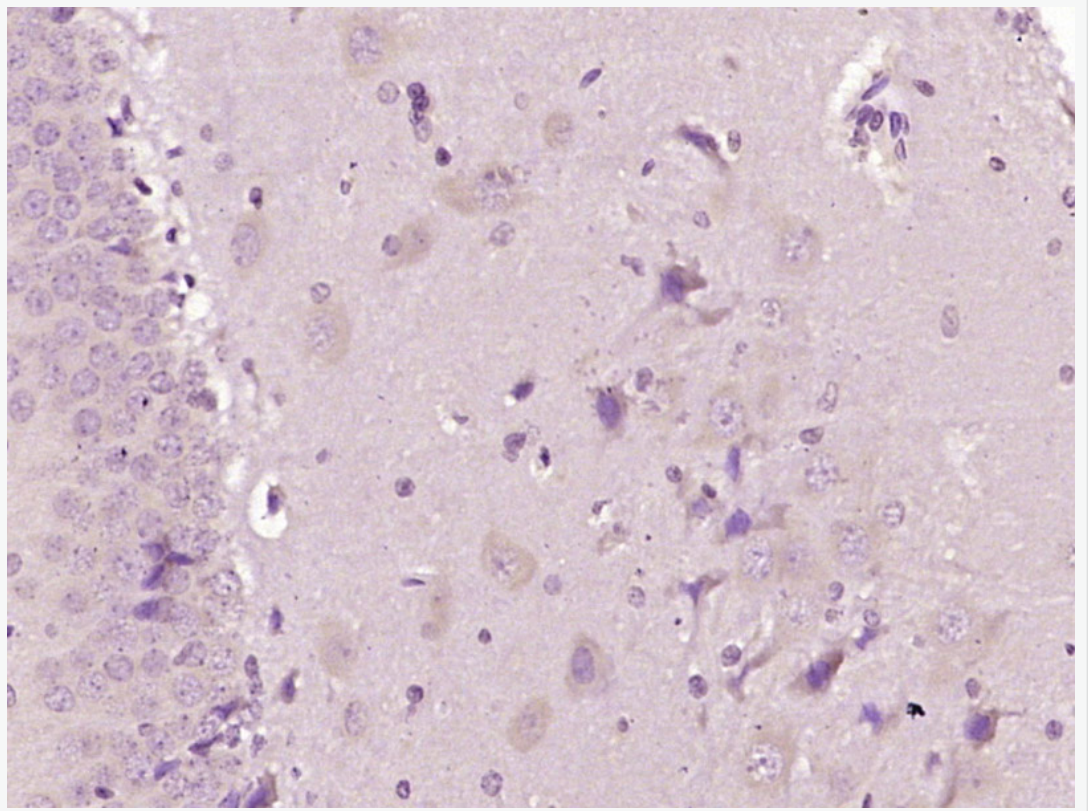
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 48 kDa

Observed band size: 48 kDa



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (NPF1 Receptor) Polyclonal Antibody, Unconjugated (SL12018R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (NPF1 Receptor) Polyclonal Antibody, Unconjugated (SL12018R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.