

NPFF1 Receptor Rabbit pAb

NPFF1 Receptor Rabbit pAb Catalog # AP54706

Product Information

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

Primary Accession Q9GZQ6

Reactivity Pig, Human, Mouse, Rabbit, Horse

Host Rabbit
Clonality Polyclonal
Calculated MW 47819
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived from human GPR147/NPFF1

Receptor

Epitope Specificity 151-260/430

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.

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 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.

Additional Information

Gene ID 64106

Other Names Neuropeptide FF receptor 1, G-protein coupled receptor 147, RFamide-related

peptide receptor OT7T022, NPFFR1 (HGNC:17425), GPR147, NPFF1

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 NPFFR1 (HGNC:17425)

Synonyms GPR147, NPFF1

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

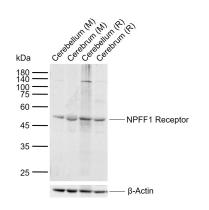
phosphatidylinositol-calcium second messenger system.

Cellular Location Cell membrane; Multi-pass membrane protein

Background

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.

Images



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

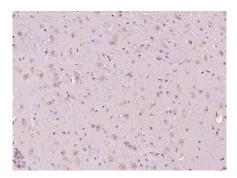
Primary: Anti-NPFF1 Receptor (AP54706) at 1/1000

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 (NPFF1 Receptor) Polyclonal Antibody, Unconjugated (AP54706) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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