10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

NPFFR2 Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP13867a

Specification

NPFFR2 Antibody (N-term) Blocking peptide - Product Information

Primary Accession Q9Y5X5

NPFFR2 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 10886

Other Names
Neuropeptide FF receptor 2, G-protein coupled receptor 74, G-protein coupled receptor HLWAR77, Neuropeptide G-protein coupled receptor, NPFFR2, GPR74, NPFF2, NPGPR

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP13867a was selected from the N-term region of NPFFR2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NPFFR2 Antibody (N-term) Blocking peptide - Protein Information

Name NPFFR2

Synonyms GPR74, NPFF2, NPGPR

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.

Tissue Location
Isoform 1 is abundant in placenta. Relatively highly expressed in thymus, testis, and small

intestine. Expressed at low levels in several tissues including spleen, prostate, brain, heart, ovary, colon, kidney, lung, liver and pancreas and not expressed in skeletal muscle and leukocytes. Isoform 2 expression is highest in placenta (but at relatively low level compared to isoform 1). Very low level of expression in numerous tissues including adipose tissue and many brain regions. Isoform 3 is expressed in brain and heart and, at lower levels, in kidney, liver, lung and pancreas

NPFFR2 Antibody (N-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

NPFFR2 Antibody (N-term) Blocking peptide - Images

NPFFR2 Antibody (N-term) Blocking peptide - Background

This gene encodes a member of a subfamily ofG-protein-coupled neuropeptide receptors. This protein is activatedby the neuropeptides A-18-amide (NPAF) and F-8-amide (NPFF) and mayfunction in pain modulation and regulation of the opioid system.Alternative splicing results in multiple transcript variants.

NPFFR2 Antibody (N-term) Blocking peptide - References

Talmont, F., et al. Peptides 31(2):215-220(2010)Goncharuk, V., et al. Peptides 29(9):1544-1553(2008)Dahlman, I., et al. Am. J. Hum. Genet. 80(6):1115-1124(2007)Anko, M.L., et al. FEBS Lett. 580(30):6955-6960(2006)Dowal, L., et al. J. Biol. Chem. 281(33):23999-24014(2006)