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NPFFR2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13867a

Product Information

Application	WB, E
Primary Accession	Q9Y5X5
Other Accession	NP_004876.2, NP_444264.1, NP_001138228.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33935
Calculated MW	60270
Antigen Region	3-32

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	This NPFFR2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 3-32 amino acids from the N-terminal region of human NPFFR2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	NPFFR2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NPFFR2 (HGNC:4525)
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

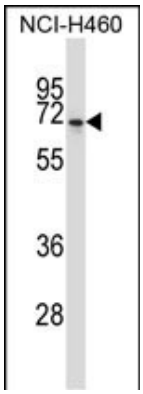
Background

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

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)

Images



NPFFR2 Antibody (N-term) (Cat. #AP13867a) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the NPFFR2 antibody detected the NPFFR2 protein (arrow).