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NMUR2 Polyclonal Antibody

Catalog # AP74281

Product Information

Application	WB, E
Primary Accession	Q9GZQ4
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47696

Additional Information

Gene ID	56923
Other Names	Neuromedin-U receptor 2 (NMU-R2) (G-protein coupled receptor FM-4) (G-protein coupled receptor TGR-1)
Dilution	WB~~WB 1:500-2000, ELISA 1:10000-20000 E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

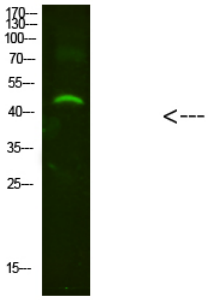
Name	NMUR2 (HGNC:16454)
Function	G protein-coupled receptor for the neuropeptides neuromedin-U (NMU) and neuromedin-S (NMS) (PubMed:10887190, PubMed:10894543, PubMed:35440625, PubMed:36575163). Functionally, is involved in regulation of feeding and energy balance (By similarity). Additionally may modulates blood pressure and smooth muscle contraction (By similarity). Mechanistically, upon ligand binding, couples to Galpha proteins, namely GNAQ/Gaq or GNA11/Ga11 and GNAI1/Gai subunits (PubMed:11010960, PubMed:15331768, PubMed:35440625, PubMed:36575163). GNAQ/Gaq or GNA11/Ga11 coupling leads to the activation of a phospholipase C (PLC), which hydrolyzes PIP2 (phosphatidylinositol 4,5- bisphosphate) into DAG (diacylglycerol) and IP3 (inositol trisphosphate), and subsequent intracellular calcium mobilization via IP3 receptors on the endoplasmic reticulum (PubMed:11010960, PubMed:15331768). GNAI1/Gai coupling inhibits forskolin-stimulated cAMP accumulation (PubMed:15331768).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Predominantly expressed in the CNS, particularly in the medulla oblongata,

pontine reticular formation, spinal cord, and thalamus. High level in testis whereas lower levels are present in a variety of peripheral tissues including the gastrointestinal tract, genitourinary tract, liver, pancreas, adrenal gland, thyroid gland, lung, trachea, spleen and thymus.

Background

Receptor for the neuromedin-U and neuromedin-S neuropeptides.

Images



Western Blot analysis of mouse-brain cells using primary antibody diluted at 1:2000(4°C overnight). Secondary antibody：Goat Anti-rabbit IgG IRDye 800(diluted at 1:5000, 25°C, 1 hour)

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