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NMUR2 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI10816

Product Information

Application	WB
Primary Accession	Q9GZQ4
Other Accession	NM_020167, NP_064552
Reactivity	Human
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47696

Additional Information

Gene ID	56923
Alias Symbol	FM4, FM-4, TGR1, NMU2R, TGR-1, NMU-R2
Other Names	Neuromedin-U receptor 2, NMU-R2, G-protein coupled receptor FM-4, G-protein coupled receptor TGR-1, NMUR2, NMU2R, TGR1
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 100 ul of distilled water. Final anti-NMUR2 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	NMUR2 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

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

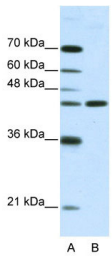
Tissue Location

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.

References

Fernandez (2002) Peptides 23 (9), 1617-1623Reconstitution and Storage:For short term use, store at 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.

Images



WB Suggested Anti-NMUR2 Antibody Titration: 2.5 µg/ml
Positive Control: HepG2 Whole Cell

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