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GPR83 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18225a

Product Information

Application	WB, E
Primary Accession	Q9NYM4
Other Accession	NP_057624.3
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33945
Calculated MW	48339
Antigen Region	1-30

Additional Information

Gene ID	10888
Other Names	Probable G-protein coupled receptor 83, G-protein coupled receptor 72, GPR83, GPR72, KIAA1540
Target/Specificity	This GPR83 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human GPR83.
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	GPR83 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GPR83 (HGNC:4523)
Function	G protein-coupled peptide receptor (PubMed: 27117253, PubMed:37689599). Several peptides, PEN, derived from the proSAAS precursor (encoded by PCSK1N), the procholecystokinin-derived peptide

	proCCK56-63, and the related proteins FAM237A and FAM237B have been reported to activate GPR83 through GNAI1/G(i) and GNAS/G(s)-mediated signaling pathways (PubMed:27117253, PubMed:32713278, PubMed:36853120, PubMed:37689599). However, due to conflicting evidence about the ability of these peptides to bind to and activate the GPR83, the endogenous ligand of GPR83 still remains uncertain (PubMed:36853120, PubMed:37894796). Plays a role in food intake and body weight regulation. May contribute to the regulation of anxiety-related behaviors (By similarity).
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:P30731}; Multi-pass membrane protein. Note=Colocalizes with GPR171 in the paraventricular nucleus. Colocalizes with the ghrelin receptor GHSR1A in the hypothalamus. {ECO:0000250|UniProtKB:P30731}
Tissue Location	Highly expressed in the brain and spinal cord, and found in lower concentrations in the thymus and other tissues

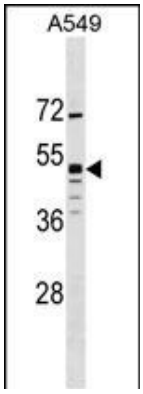
Background

GPR83 is an orphan receptor. Could be a neuropeptide Y receptor.

References

Hansen, W., et al. Genes Immun. 11(4):357-361(2010)
Lamesch, P., et al. Genomics 89(3):307-315(2007)
Hansen, W., et al. J. Immunol. 177(1):209-215(2006)
Parker, R., et al. Biochim. Biophys. Acta 1491 (1-3), 369-375 (2000) :
De Moerlooze, L., et al. Cytogenet. Cell Genet. 90 (1-2), 146-150 (2000) :

Images



GPR83 Antibody (N-term) (Cat. #AP18225a) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the GPR83 antibody detected the GPR83 protein (arrow).

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