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Anti-GPR83 Antibody

Catalog # AP51243

Product Information

Application	WB
Primary Accession	Q9NYM4
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	48339

Additional Information

Gene ID	10888
Other Names	GPR72; KIAA1540; Probable G-protein coupled receptor 83; G-protein coupled receptor 72
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human GPR83. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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.

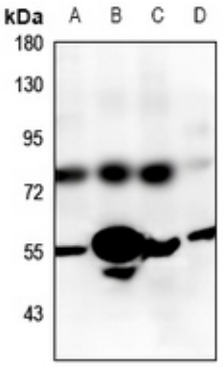
{ECO:0000250|UniProtKB:P30731}

Tissue Location Highly expressed in the brain and spinal cord, and found in lower concentrations in the thymus and other tissues

References

Parker R.,et al.Biochim. Biophys. Acta 1491:369-375(2000).
Nagase T.,et al.DNA Res. 7:143-150(2000).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Kaighin V.A.,et al.Submitted (DEC-2007) to the EMBL/GenBank/DDBJ databases.

Images



Western blot analysis of GPR83 expression in U87MG (A), mouse brain (B), rat brain (C), mouse lung (D) whole cell lysates. (Predicted band size: 48 kD; Observed band size: 55 kD)

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