

Anti-GPR171 Antibody

Catalog # AP51953

Product Information

Application	WB, IF/IC
Primary Accession	O14626
Reactivity	Human, Mouse, Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	36754

Additional Information

Gene ID	29909
Other Names	H963; Probable G-protein coupled receptor 171; G-protein coupled receptor H963
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human GPR171. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IF/IC~~N/A
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	GPR171 (HGNC:30057)
Synonyms	H963
Function	G protein-coupled receptor for Big LEN, a 16-amino acid neuropeptide produced from the precursor protein, proSAAS (encoded by PCSK1N). Acts through a G(i)-alpha-mediated pathway in response to Big LEN. Big LEN-GPR171 system plays an important role in regulating feeding and metabolism. Also plays a role in modulating fear and anxiety-like behaviors in the basolateral amygdala. Big LEN-GPR171 modulates the mu-type opioid receptor signaling and antinociception (By similarity). Acts as a negative regulator T cell function (PubMed: 34615877).
Cellular Location	Cell membrane {ECO:0000250 UniProtKB:Q8BG55}; Multi-pass membrane protein. Note=Colocalized with GPR83 in the paraventricular nucleus. {ECO:0000250 UniProtKB:Q8BG55}

Tissue Location

Expressed in both T-cell subsets and natural killer cells, while it is undetectable in B cells or CD14(+) monocytes. Expressed in peripheral blood mononuclear cells (PBMC) and Jurkat cells (at protein level).

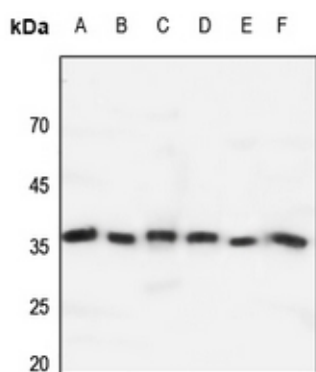
References

Jacobs K.A., et al. *Gene* 198:289-296(1997).

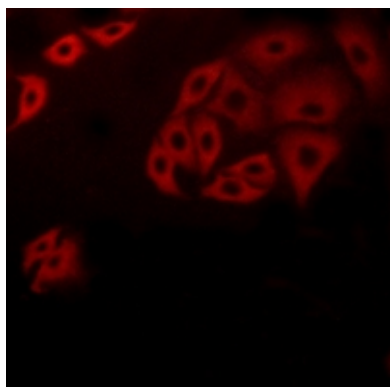
Joensuu T., et al. *Am. J. Hum. Genet.* 69:673-684(2001).

Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

Images



Western blot analysis of GPR171 expression in HEK293T (A), Hela (B), H460 (C), mouse kidney (D), rat kidney (E), mouse lung (F) whole cell lysates. (Predicted band size: 36 kD; Observed band size: 36 kD)



Immunofluorescent analysis of GPR171 staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

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