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Anti-GPR50 Antibody

Catalog # AP51961

Product Information

Application	WB, IF/IC
Primary Accession	Q13585
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	67369

Additional Information

Gene ID	9248
Other Names	Melatonin-related receptor; G protein-coupled receptor 50; H9
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human GPR50. 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

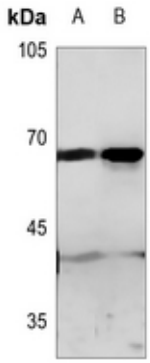
Protein Information

Name	GPR50
Function	G protein-coupled receptor that plays a role in numerous physiological processes including regulation of energy metabolism, neurite outgrowth or cell migration (PubMed:19699797). Promotes self- renewal and neuronal differentiation of neural progenitor cells through activation of the NOTCH and WNT/beta-catenin signaling pathways (By similarity). Modulates the KAT5-dependent glucocorticoid receptor signaling by modulating KAT5 subcellular compartmentalization (PubMed:21858214). Also plays a role in the activation TGFBR1 in the absence of TGFBR2 by interfering with FKBP1A binding to TGFBR1, leading to induction of both canonical and non-canonical SMAD signaling pathways resulting in inhibition of proliferation or promotion of migration (PubMed:29572483).
Cellular Location	Cell membrane; Multi-pass membrane protein. Postsynaptic density
Tissue Location	Hypothalamus and pituitary.

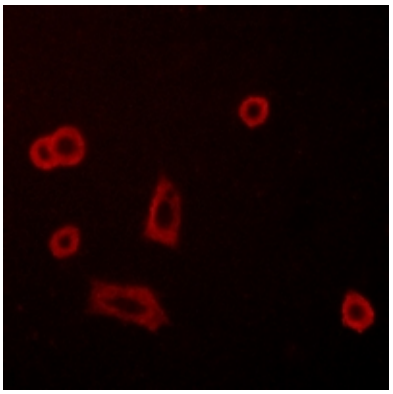
References

Reppert S.M.,et al.FEBS Lett. 386:219-224(1996).
Kaighin V.A.,et al.Submitted (DEC-2007) to the EMBL/GenBank/DDBJ databases.
Levoye A.,et al.EMBO J. 25:3012-3023(2006).
Bhattacharyya S.,et al.J. Lipid Res. 47:761-766(2006).

Images



Western blot analysis of GPR50 expression in mouse testis (A), rat testis (B) whole cell lysates. (Predicted band size: 67 kD; Observed band size: 67 kD)



Immunofluorescent analysis of GPR50 staining in LOVO 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 hidified 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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