

### **GPR50** Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP9343c

### **Specification**

# **GPR50** Antibody (Center) - Product Information

Application	FC, WB,E
Primary Accession	<u>013585</u>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	67369
Antigen Region	316-344

# **GPR50** Antibody (Center) - Additional Information

#### Gene ID 9248

**Other Names** Melatonin-related receptor, G protein-coupled receptor 50, H9, GPR50

Target/Specificity

This GPR50 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 316-344 amino acids from the Central region of human GPR50.

**Dilution** FC~~1:10~50 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** 

GPR50 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

# **GPR50** Antibody (Center) - 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:<u>19699797</u>). 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 compartmentalisation (PubMed:<u>21858214</u>). 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:<u>29572483</u>).

**Cellular Location** Cell membrane; Multi-pass membrane protein. Postsynaptic density

**Tissue Location** Hypothalamus and pituitary.

# **GPR50** Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

**GPR50** Antibody (Center) - Images



Western blot analysis of GPR50 Antibody (Center) (Cat. #AP9343c) in K562 cell line lysates (35ug/lane). GPR50 (arrow) was detected using the purified Pab.



GPR50 Antibody (Center) (Cat. #AP9343c) flow cytometry analysis of K562 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### GPR50 Antibody (Center) - Background

Melatonin-related receptor expression has been documented from human CNS tissues, specifically in hypothalamus and pituitary, but not in human peripheral tissues. In animals, expression has also been seen in the CNS, and peripheral tissues.