

GPR50 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9343c

Specification

GPR50 Antibody (Center) - Product Information

Application	WB, FC,E
Primary Accession	Q13585
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

WB~~1:1000

FC~~1:10~50

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:[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 compartmentalisation (PubMed:[21858214](#)). Plays also 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

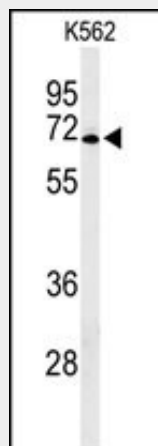
Tissue Location

Hypothalamus and pituitary.

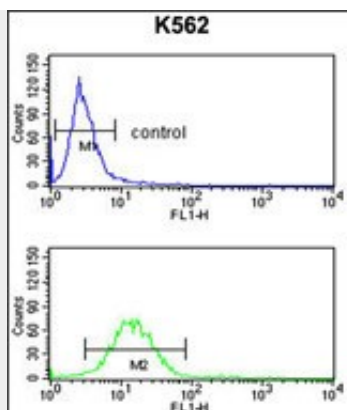
GPR50 Antibody (Center) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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.