For Research Use Only

GPR50 Polyclonal antibody

Catalog Number:19762-1-AP Featured Product 6 Publications

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Basic Information

Catalog Number:
19762-1-AP

Size:
150ul , Concentration: 1000 µg/ml by Nanodrop and 333 µg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_004224

GeneID (NCBI):
9248

UNIPROT ID:
Q13585

Full Name:
G protein-coupled receptor 50

Calculated MW:
67 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
IHC 1:20-1:200
IF-P 1:50-1:500
IF/ICC 1:100-1:500

Applications

Tested Applications:
IHC, IF/ICC, IF-P, ELISA

Cited Applications:
WB, IF, IP

Species Specificity:
human, mouse

Cited Species:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

IHC : mouse brain tissue,

IF-P : mouse brain tissue,

IF/ICC : SH-SY5Y cells,

Background Information

GPR50, also known as Melatonin-related receptor or H9, is a member of the G-protein coupled receptor 1 family. It is closely related to the G protein-coupled melatonin receptor family and has been demonstrated as the mammalian ortholog of Mel1c receptor (PMID: 8647286; 18400093). GPR50 does not bind melatonin. It is able to heterodimerize with both the MT1 (Mel1a) and MT2 (Mel1b) melatonin receptor subtypes. While GPR50 has no effect on MT2 function, GPR50 prevented MT1 from both binding melatonin and coupling to G proteins. GPR50 is involved in neuroendocrine function and plays a role in the regulation of energy metabolism (PMID: 8647286; 17957037).

Notable Publications

Author	Pubmed ID	Journal	Application
Danli Lu	36181629	Transl Stroke Res	WB,IP
Boris Simonetti	31576058	Nat Cell Biol	WB
Zhenyu Yao	36333974	FEBS Open Bio	WB

Storage

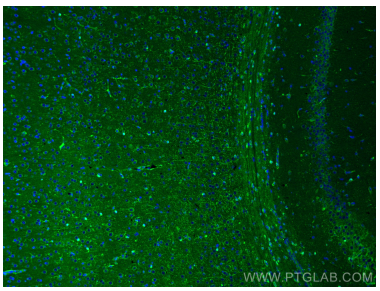
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

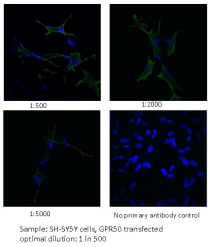
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data

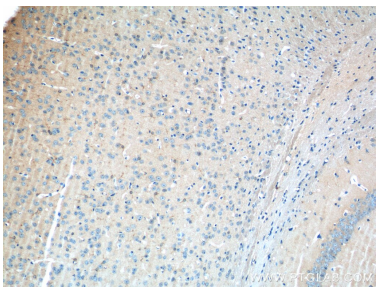


Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using GPR50 antibody (19762-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).

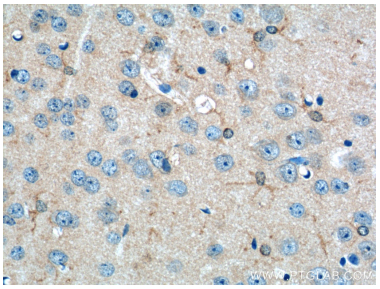
Immunocytochemistry



IF result of anti-GPR50 (19762-1-AP, 1:500) with SH-SY5Y cells transfected with GPR50 by Dr. Qian Li, University of Edinburgh.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 19762-1-AP (GPR50 Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 19762-1-AP (GPR50 Antibody) at dilution of 1:50 (under 40x lens).