For Research Use Only

GPR172B Polyclonal antibody

Catalog Number:20791-1-AP

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Basic Information

Catalog Number:
20791-1-AP

Size:
150ul , Concentration: 650 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG14525

GenBank Accession Number:
BC060810

GeneID (NCBI):
55065

UNIPROT ID:
Q9NWF4

Full Name:
G protein-coupled receptor 172B

Calculated MW:
448 aa, 46 kDa

Observed MW:
50 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IHC 1:50-1:500

Applications

Tested Applications:
WB, IHC, ELISA

Species Specificity:
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:

WB : human placenta tissue, mouse brain tissue, mouse small intestine tissue, mouse testis tissue

IHC : mouse testis tissue,

Background Information

GPR172B, also known as solute carrier family 52 member 1 (SLC52A1) or riboflavin transporter 1 (RFT1), is a G protein-coupled receptor (GPCR) that plays a significant role in the transport of riboflavin, a vital component for the production of flavin adenine dinucleotide (FAD) and flavin mononucleotide (FMN). GPR172B plays a role in cellular aging. Knockdown of GPR172B promotes senescence induced by DNA damage in both tumor and normal cells. The anti-senescence effect of GPR172B is dependent on its riboflavin transport activity, which leads to the activation of mitochondrial membrane potential (MMP) mediated by mitochondrial electron transport chain complex II, ultimately inhibiting the AMPK-p53 pathway, a central mediator of senescence-associated with mitochondrial dysfunction.

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
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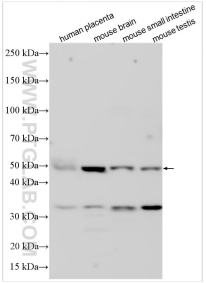
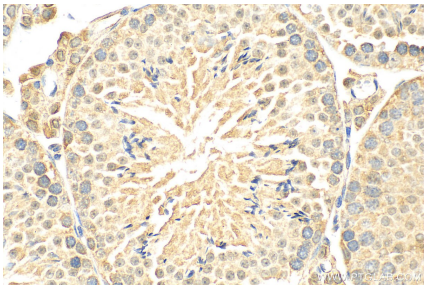
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 20791-1-AP (GPR172B antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 20791-1-AP (GPR172B antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).