

For Research Use Only

GPR172B Polyclonal antibody, PBS Only

Catalog Number: 20791-1-PBS



Basic Information

| | | |
|--|--|--|
| Catalog Number: 20791-1-PBS | GenBank Accession Number: BC060810 | Purification Method: Antigen affinity purification |
| Size: 100ug, Concentration: 1 mg/ml by Nanodrop; | GeneID (NCBI): 55065 | |
| Source: Rabbit | UNIPROT ID: Q9NWF4 | |
| Isotype: IgG | Full Name: G protein-coupled receptor 172B | |
| Immunogen Catalog Number: AG14525 | Calculated MW: 448 aa, 46 kDa | |
| | Observed MW: 50 kDa | |

Applications

Tested Applications:
WB, IHC, Indirect ELISA

Species Specificity:
human, mouse, rat

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 -80°C.

Storage Buffer:
PBS only, pH7.3

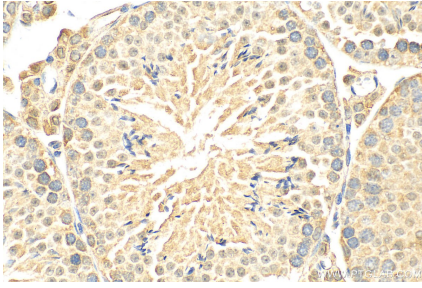
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

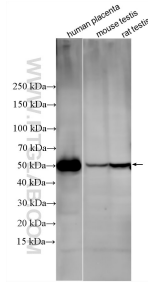
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



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). This data was developed using the same antibody clone with 20791-1-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 20791-1-AP (GPR172B antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 20791-1-PBS in a different storage buffer formulation.