

For Research Use Only

# GPR172B Polyclonal antibody, PBS Only

Catalog Number:20791-1-PBS



## Basic Information

Catalog Number:

20791-1-PBS

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

## 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.

**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

Storage Buffer:

PBS only, pH7.3

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

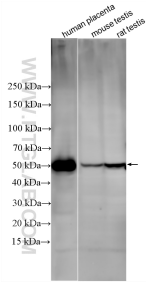
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

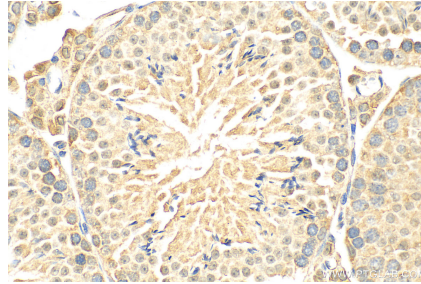
W: [ptgcn.com](http://ptgcn.com)

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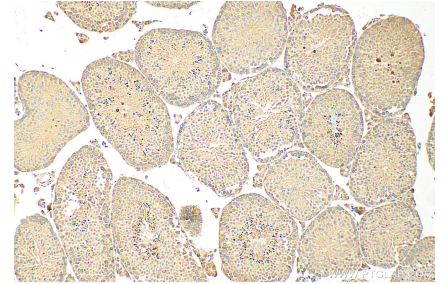
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 20791-1-AP (GPR172B antibody) at dilution of 1:2000 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.



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.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 20791-1-AP (GPR172B antibody) at dilution of 1:200 (under 10x 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.