

For Research Use Only

# RGR Polyclonal antibody

Catalog Number: 11904-1-AP



## Basic Information

Catalog Number:

11904-1-AP

Size:

650 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2552

GenBank Accession Number:

BC008094

GeneID (NCBI):

5995

UNIPROT ID:

P47804

Full Name:

retinal G protein coupled receptor

Calculated MW:

32 kDa

Observed MW:

32 kDa, 26 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:500-1:2000

## Applications

Tested Applications:

WB, IP, IHC, ELISA

Species Specificity:

human, mouse, rat

**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 heart tissue,

IP : PC-3 cells,

IHC : mouse retina tissue, human prostate cancer tissue

## Background Information

RGR is a G protein-coupled receptor preferentially expressed at high levels in the retinal pigment epithelium (RPE) and Mueller cells of the neural retina. Like other opsins which bind retinaldehyde, it contains a conserved lysine residue in the seventh transmembrane domain. RGR acts as a photoisomerase to catalyze the conversion of all-trans-retinal to 11-cis-retinal. The reverse isomerization occurs with rhodopsin in retinal photoreceptor cells. The gene of PGR may be associated with autosomal recessive and autosomal dominant retinitis pigmentosa (arRP and adRP, respectively). Alternative splicing results in multiple transcript variants encoding different isoforms.

## 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

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

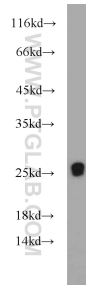
T: 4006900926

E: Proteintech-CN@ptglab.com

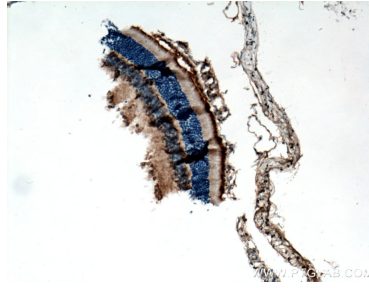
W: ptgcn.com

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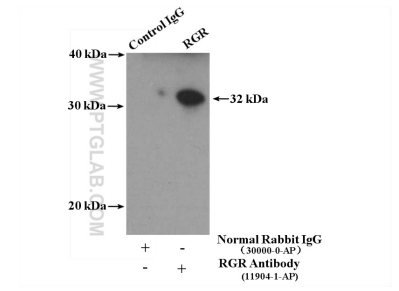
## Selected Validation Data



human heart tissue were subjected to SDS PAGE followed by western blot with 11904-1-AP (RGR antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse retina tissue slide using 11904-1-AP (RGR antibody) at dilution of 1:1000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-RGR (IP:11904-1-AP, 4ug; Detection:11904-1-AP 1:300) with PC-3 cells lysate 4000ug.