

RGR Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9895c**Specification**

RGR Antibody (Center) - Product Information

Application	FC, IHC-P, WB,E
Primary Accession	P47804
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	31874
Antigen Region	265-291

RGR Antibody (Center) - Additional Information**Gene ID** 5995**Other Names**

RPE-retinal G protein-coupled receptor, RGR

Target/Specificity

This RGR antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 265-291 amino acids from the Central region of human RGR.

Dilution

FC~~1:10~50

IHC-P~~1:50~100

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

RGR Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

RGR Antibody (Center) - Protein Information**Name** RGR

Function Receptor for all-trans- and 11-cis-retinal. Binds preferentially to the former and may catalyze the isomerization of the chromophore by a retinochrome-like mechanism.

Cellular Location

Membrane; Multi-pass membrane protein.

Tissue Location

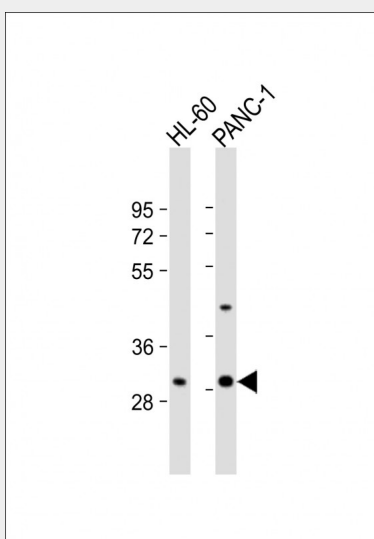
Preferentially expressed at high levels in the retinal pigment epithelium (RPE) and Mueller cells of the neural retina

RGR Antibody (Center) - Protocols

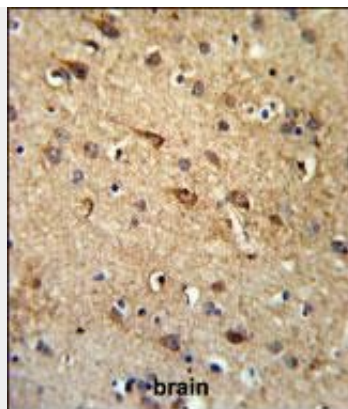
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

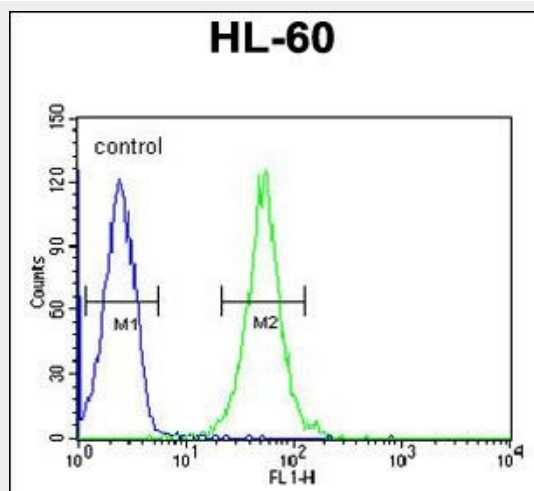
RGR Antibody (Center) - Images



All lanes : Anti-RGR Antibody (Center) at 1:1000 dilution Lane 1: HL-60 whole cell lysate Lane 2: PANC-1 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 32 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



RGR Antibody (Center) (Cat. #AP9895c) IHC analysis in formalin fixed and paraffin embedded brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the RGR Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



RGR Antibody (Center) (Cat. #AP9895c) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

RGR Antibody (Center) - Background

This gene encodes a putative retinal G-protein coupled receptor. The gene is a member of the opsin subfamily of the 7 transmembrane, G-protein coupled receptor 1 family. Like other opsins which bind retinaldehyde, it contains a conserved lysine residue in the seventh transmembrane domain. The protein 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 protein is exclusively expressed in tissue adjacent to retinal photoreceptor cells, the retinal pigment epithelium and Mueller cells. This gene may be associated with autosomal recessive and autosomal dominant retinitis pigmentosa (arRP and adRP, respectively).

RGR Antibody (Center) - References

- Kochounian, H., et al. Exp. Eye Res. 88(6):1129-1136(2009)
- Radu, R.A., et al. J. Biol. Chem. 283(28):19730-19738(2008)
- Luttrell, L.M. Mol. Biotechnol. 39(3):239-264(2008)
- Lin, M.Y., et al. Mol. Vis. 13, 1203-1214 (2007)