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## Datasheet for ABIN954529 anti-RGR antibody (Middle Region)

## 3 Images



#### Overview

Quantity:	0.4 mL
Target:	RGR
Binding Specificity:	AA 262-291, Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RGR antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS)

## Product Details

Immunogen:	KLH conjugated synthetic peptide between 262~291 amino acids from the Central region of Human RGR. Genename: RGR
Isotype:	Ig Fraction
Specificity:	This antibody recognizes Human RGR (Center).
Purification:	Affinity Chromatography on Protein A

## Target Details

Target:	RGR
Alternative Name:	RGR (RGR Products)

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## Target Details

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 nument enithelium and Mueller cells. This gene may be associated with autosomal recessive
	and autosomal dominant retinitis pigmentosa (arRP and adRP, respectively).Synonyms: RPE-
	retinal G protein-coupled receptor
Molecular Weight:	31874 Da
Gene ID:	5995
NCBI Accession:	NP_001012738
Application Details	
Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	0.25 mg/mL
Buffer:	PBS, 0.09 % Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

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#### **Flow Cytometry**

**Image 1.** Flow cytometric analysis of HL-60 cells using RGR Antibody (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 2.** Formalin fixed, paraffin embedded brain tissue stained with RGR Antibody 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.

#### Western Blotting

**Image 3.** Western blot analysis of RGR Antibody in HL-60 cell line lysates (35ug/lane). RGR (arrow) was detected using the purified Pab.

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