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Datasheet for ABIN6146910
anti-RGR antibody (AA 156-295)

1 Image

Overview

Quantity:	100 µL
Target:	RGR
Binding Specificity:	AA 156-295
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RGR antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 156-295 of human RGR (NP_002912.2).
Sequence:	HYDYEPLGTC CTLDYSKGD R NFTSFLFTMS FFNFAMPLFI TITSYSLMEQ KLGKSGHLQV NTTLPARTLL LGWGPYAILY LYAVIADVTS ISPKLQMVPA LIAKMOVPTIN AINYALGNEM VCRGIWQCLS PQRKREKDRTK
Isotype:	IgG
Cross-Reactivity:	Rat
Characteristics:	Polyclonal Antibodies

Target Details

Target:	RGR
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Target Details

Alternative Name: RGR ([RGR Products](#))

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). Alternative splicing results in multiple transcript variants encoding different isoforms.,RGR,RP44,Signal Transduction,G protein signaling,G-Protein-Coupled Receptors(GPCR),Neuroscience,RGR

Molecular Weight: 27 kDa/31 kDa/32 kDa

Gene ID: 5995

UniProt: [P47804](#)

Application Details

Application Notes: WB,1:500 - 1:2000

Comment: HIGH QUALITY

Restrictions: For Research Use only

Handling

Format: Liquid

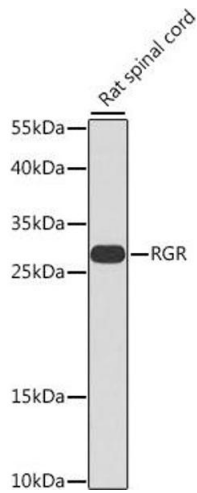
Buffer: PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.



Western Blotting

Image 1. Western blot analysis of extracts of rat spinal cord, using RGR antibody (ABIN6128677, ABIN6146910, ABIN6146911 and ABIN6223922) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.