
Product Information

Product SKU:	CAB7925	Gene ID:	5995	Size:	20uL, 100uL
Clone No:	-	Host Species:	Rabbit	Reactivity:	Rat

Additional Information

Observed MW:	32kDa	Conjugate:	Unconjugated
Calculated MW:	32kDa	Isotype:	IgG

Immunogen Information

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.
Recommended Dilution:	WB:1:500 - 1:2000
Synonyms:	RP44; RGR
Purification Method:	Affinity purification
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 156-295 of human RGR (NP_002912.2).
Storage:	Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.