



Anti-RGR (full length) polyclonal antibody (DPAB-DC2696)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
Immunogen	RGR (AAH11349, 1 a.a. ~ 295 a.a) full-length recombinant protein with GST tag. The sequence is MAETSALPTGFGELEVLAGMVLLVEALSGLSNLTIFSFKTPELRTPCCHLLVSLAL ADSGISLNALVAATSSLLRVSHRRWPYSDGCQAHGFQGFVTALASICSSAAIAWGRYHH YCTRSQLAWNSAVSLVLFVWLSSAFWAALPLLGWGHYDYEPLGTCCTLDYSKGDRNFTSF LFTMSFFNFAMPLFITITSYSLMEQKLGKSGHLQVNTL PARTLLLGWGPYAILYLYAVI ADVTSISPQLQMVPALIAKMOVPTINAINYALGNEMVCRGIWQCLSPQKREKDRTK
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol

Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	RGR retinal G protein coupled receptor [Homo sapiens (human)]
Official Symbol	RGR
Synonyms	RGR; retinal G protein coupled receptor; RP44; RPE-retinal G protein-coupled receptor; RGR-opsin; RPE retinal G-protein coupled receptor;
Entrez Gene ID	5995
Protein Refseq	NP_001012738
UniProt ID	P47804
Chromosome Location	10q23
Pathway	Class A/1 (Rhodopsin-like receptors); GPCR downstream signaling; Opsins; Signaling by GPCR
Function	G-protein coupled receptor activity; chemokine receptor activity; photoreceptor activity; protein binding
