PGCF Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PGCF, Polyclonal Antibody
Full Product Name	PGCF Antibody BIOTIN-Conjugated
Product Gene Name	anti-PGCF antibody
Product Synonym Names	Particulate Guanylate Cyclase F antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	BIOTIN-Conjugated
Concentration	0.75-1.20 ug/ul in antibody stabilization buffer (lot specific)
Preparation and Storage	-20• degree C for long term storage
Matching Pairs	Antibody: PGCF (MBS543741) Positive Control: PGCF (MBS543119)
Antibody/Peptide Pairs	PGCF peptide (MBS544258) is used for blocking the activity of PGCF antibody (MBS543741)
Molecular Weight	124,411 Da
3D Structure	ModBase 3D Structure for P51842
Immunogen	Synthetic C-terminal peptide corresponding to unique amino acid sequences on Particulate Guanylyl Cyclase F protein.
Expression	Expressed only in the eye.
Molecular Function	Lyase
Structure	Belongs to the adenylyl cyclase-class-4/guanylyl cyclase family. Contains 1 guanylate cyclase domain. Contains 1 protein kinase domain.
Subcellular Location	Membrane; Single-pass type I membrane protein
Applications Tested/Suitable for anti-PGCF antibody	Confocal Microscopy (CM), ELISA (EIA), Immunocytochemistry (ICC), Immunofluorescence (IF), Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-PGCF antibody	Confocal Microscopy||1:200 Dot Blot: 1:10,000 ELISA: 1:10,000 Immunocytochemistry: 1:200 Immunofluorescence: 1:200 Immunohistochemistry: 1:200 Western Blot: 1:500
Related Product Information for anti-PGCF antibody	BIOTIN-Conjugated Guanylyl Cyclase F Antibody Probably plays a specific functional role in the rods and/or cones of photoreceptors. It may be the enzyme involved in the resynthesis of cGMP required for recovery of the dark state after phototransduction.
Other Notes	Small volumes of anti-PGCF antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for PGCF purchase	MBS543741 is an antibody targeting PGCF. Also known as PGCF Antibody BIOTIN-Conjugated. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PGCF. It may not necessarily be applicable to this product.

NCBI GI #	780356
NCBI GeneID	79222
NCBI Accession #	L36029.1
UniProt Primary Accession #	P51842
UniProt Related Accession #	P51840
NCBI Official Full Name	Rattus norvegicus guanylyl cyclase (GC-E), complete cds
NCBI Official Synonym Full Names	guanylate cyclase 2E
NCBI Official Symbol	Gucy2e
UniProt Protein Name	Retinal guanylyl cyclase 2
UniProt Synonym Protein Names	Guanylate cyclase 2F, retinal; Guanylate cyclase F; GC-F; Rod outer segment membrane guanylate cyclase 2; ROS-GC2
UniProt Gene Name	Gucy2f
UniProt Synonym Gene Names	Guc2f; RETGC-2; GC-F; ROS-GC2
UniProt Entry Name	GUC2F_RAT
NCBI Protein Information	guanylyl cyclase GC-E
NCBI Summary for PGCF	an orphan membrane guanylyl cyclase [RGD, Feb 2006]
UniProt Comments for PGCF	GUCY2F: Probably plays a specific functional role in the rods and/or cones of photoreceptors. It may be the enzyme involved in the resynthesis of cGMP required for recovery of the dark state after phototransduction. Belongs to the adenylyl cyclase class-4/guanylyl cyclase family. Protein type: Nucleotide Metabolism - purine; Membrane protein, integral; Guanylyl cyclase; Receptor, misc.; Kinase, protein; EC 4.6.1.2; Protein kinase, RGC; Protein kinase, dual-specificity (receptor); Lyase; RGC group; RGC family Cellular Component: guanylate cyclase complex, soluble; integral to membrane; membrane; plasma membrane Molecular Function: adenylate cyclase activity; ATP binding; GTP binding; guanylate cyclase activity; protein binding; protein heterodimerization activity; protein homodimerization activity; protein kinase activity Biological Process: cGMP biosynthetic process; detection of light stimulus involved in visual perception; protein amino acid phosphorylation; receptor guanylyl cyclase signaling pathway
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