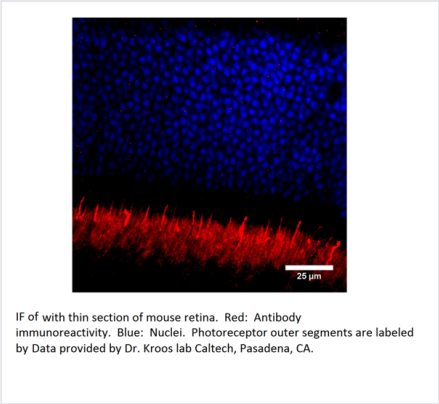
PGCE Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PGCE, Polyclonal Antibody
Full Product Name	PGCE Antibody
Product Gene Name	anti-PGCE antibody
Product Synonym Names	Particulate Guanylate Cyclase E antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Affinity Purified
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: PGCE (MBS540093) Positive Control: PGCE (MBS543118)
Antibody/Peptide Pairs	PGCE peptide (MBS544257) is used for blocking the activity of PGCE antibody (MBS540093)
Molecular Weight	120,801 Da
3D Structure	ModBase 3D Structure for P51840
Immunogen	Synthetic C-terminal peptide corresponding to unique amino acid sequences on Particulate Guanylyl Cyclase E protein.
Expression	Expressed in the eye and the pineal gland.
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
Product Categories/Family for anti-PGCE antibody	Primary Antibodies; Signal Transduction; Guanylate Cyclases & GTPases; PGCE Antibody
Applications Tested/Suitable for anti-PGCE antibody	Confocal Microscopy (CM), ELISA (EIA), Immunocytochemistry (ICC), Immunofluorescence (IF), Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-PGCE 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-PGCE antibody	Affinity Purified Guanylyl cyclase E Antibody GTP = 3', 5'-cyclic GMP + diphosphate.
Other Notes	Small volumes of anti-PGCE 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 PGCE purchase	MBS540093 is an antibody targeting PGCE. Also known as PGCE Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Immunofluorescence (IF) of anti-PGCE antibody

ADDITIONAL DETAILS

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

NCBI GI #	780356
NCBI GeneID	79222
NCBI Accession #	L36029.1
UniProt Primary Accession #	P51840
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	Guanylyl cyclase GC-E
UniProt Synonym Protein Names	Guanylate cyclase 2E
UniProt Gene Name	Gucy2e
UniProt Synonym Gene Names	Guc2e
UniProt Entry Name	GUC2E_RAT
NCBI Protein Information	guanylyl cyclase GC-E
NCBI Summary for PGCE	an orphan membrane guanylyl cyclase [RGD, Feb 2006]

UniProt Comments for PGCE	GUCY2D: 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. Defects in GUCY2D are the cause of Leber congenital amaurosis type 1 (LCA1). LCA designates a clinically and genetically heterogeneous group of childhood retinal degenerations, generally inherited in an autosomal recessive manner. Affected infants have little or no retinal photoreceptor function as tested by electroretinography. LCA represents the most common genetic cause of congenital visual impairment in infants and children. Defects in GUCY2D are the cause of cone-rod dystrophy type 6 (CORD6). CORDs are inherited retinal dystrophies belonging to the group of pigmentary retinopathies. CORDs are characterized by retinal pigment deposits visible on fundus examination, predominantly in the macular region, and initial loss of cone photoreceptors followed by rod degeneration. This leads to decreased visual acuity and sensitivity in the central visual field, followed by loss of peripheral vision. Severe loss of vision occurs earlier than in retinitis pigmentosa. Belongs to the adenylyl cyclase class-4/guanylyl cyclase family. Protein type: Membrane protein, integral; Nucleotide Metabolism - purine; Protein kinase, RGC; Kinase, protein; EC 4.6.1.2; Lyase; Receptor, misc.; Protein kinase, dual-specificity (receptor); Guanylyl cyclase; RGC group; RGC family Cellular Component: integral to membrane; intracellular; plasma membrane Molecular Function: ATP binding; GTP binding; guanylate cyclase activity; identical protein binding; protein binding; protein kinase activity Biological Process: cGMP biosynthetic process; protein amino acid phosphorylation; visual perception
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