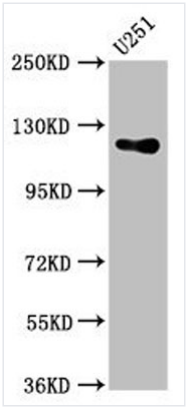
GUCY2D Antibody – Rabbit Polyclonal

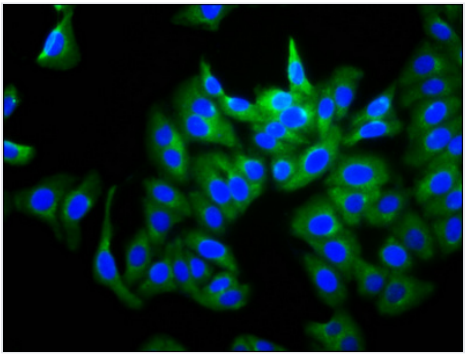
PRODUCT OVERVIEW

Product Name	GUCY2D, Polyclonal Antibody
Full Product Name	GUCY2D Antibody
Product Gene Name	anti-GUCY2D antibody
Product Synonym Names	Retinal guanylyl cyclase 1; RETGC-1; EC 4.6.1.2; Guanylate cyclase 2D; retinal; Rod outer segment membrane guanylate cyclase; ROS-GC; GUCY2D; CORD6; GUC1A4; GUC2D; RETGC; RETGC1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: GUCY2D (MBS7109843) HRP Conjugated Antibody: GUCY2D (MBS7109844)
Matching Pairs	Unconjugated Antibody: GUCY2D (MBS7109843) FITC Conjugated Antibody: GUCY2D (MBS7109845)
Matching Pairs	Unconjugated Antibody: GUCY2D (MBS7109843) Biotin Conjugated Antibody: GUCY2D (MBS7109846)
OMIM	M92432 mRNA
3D Structure	ModBase 3D Structure for Q02846
Immunogen	Recombinant Human Retinal guanylyl cyclase 1 protein (362-462AA)
Immunogen Species	Homo sapiens (Human)
Research Area	Others
Target Names	GUCY2D
Conjugation	Non-conjugated
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-GUCY2D antibody	ELISA (EIA), Western Blot (WB), Immunofluorescence (IF)
Application Notes for anti-GUCY2D antibody	WB: 1:500-1:5000, IF: 1:200-1:500
Related Product Information for anti-GUCY2D 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-GUCY2D 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 GUCY2D purchase	MBS7109843 is an antibody targeting GUCY2D. Also known as GUCY2D Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-GUCY2D antibody
Western BlotPositive WB detected in: U251 whole cell lysateAll lanes: GUCY2D antibody at 5.4ug/mlSecondaryGoat polyclonal to rabbit IgG at 1/50000 dilutionPredicted band size: 121 kDaObserved band size: 121 kDa



Immunofluorescence (IF) of anti-GUCY2D antibody
Immunofluorescence staining of HepG2 cells with MBS7109843 at 1:266, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4 degree C.The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG (H+L).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GUCY2D. It may not necessarily be applicable to this product.

NCBI GI #	4504217
NCBI GeneID	3000
NCBI Accession #	NP_000171.1
UniProt Primary Accession #	Q02846
UniProt Secondary Accession #	Q6LEA7
UniProt Related Accession #	Q02846
GenBank Nucleotide #	NM_000180.3
NCBI Official Full Name	retinal guanylyl cyclase 1
NCBI Official Synonym Full Names	guanylate cyclase 2D, retinal
NCBI Official Symbol	GUCY2D
NCBI Official Synonym Symbols	LCA; CYGD; LCA1; RCD2; CACD1; CORD5; CORD6; GUC2D; ROSGC; retGC; GUC1A4; RETGC-1; ROS-GC1
UniProt Protein Name	Retinal guanylyl cyclase 1
UniProt Synonym Protein Names	Guanylate cyclase 2D, retinal; Rod outer segment membrane guanylate cyclase; ROS-GC
Protein Family	Olfactory guanylyl cyclase
UniProt Gene Name	GUCY2D
UniProt Synonym Gene Names	CORD6; GUC1A4; GUC2D; RETGC; RETGC1; RETGC-1; ROS-GC
NCBI Protein Information	retinal guanylyl cyclase 1

NCBI Summary for GUCY2D	This gene encodes a retina-specific guanylate cyclase, which is a member of the membrane guanylyl cyclase family. Like other membrane guanylyl cyclases, this enzyme has a hydrophobic amino-terminal signal sequence followed by a large extracellular domain, a single membrane spanning domain, a kinase homology domain, and a guanylyl cyclase catalytic domain. In contrast to other membrane guanylyl cyclases, this enzyme is not activated by natriuretic peptides. Mutations in this gene result in Leber congenital amaurosis and cone-rod dystrophy-6 diseases. [provided by RefSeq, Dec 2008]
Research Articles on GUCY2D	**1.** As other genotypes were identified, there were attempts to divide the genotypes by phenotype: GUCY2D-LCA was considered a cone-rod dystrophy, whereas other genotypes were designated as rod-cone dystrophies
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