Rabbit anti-Human GUCY2D Polyclonal Antibody | anti-GUCY2D antibody

GUCY2D Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA286259	**Rabbit**	**Human**	**Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot**

PRODUCT SYNONYMS

GUCY2D; Polyclonal Antibody; GUCY2D Antibody (Center); Retinal guanylyl cyclase 1; RETGC-1; Guanylate cyclase 2D; retinal; Rod outer segment membrane guanylate cyclase; ROS-GC; CORD6; GUC1A4; GUC2D; RETGC; RETGC1; anti-GUCY2D antibody

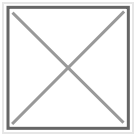
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This GUCY2D antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 540-570 amino acids from the Central region of human GUCY2D.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.4 (varies by lot)
Sequence Positions	540-570
Sequence Length	1103
Applicable Applications for anti-GUCY2D antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES

FCM/FACS (Flow Cytometry)
GUCY2D Antibody (Center) flow cytometric analysis of Ramos cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

IHC (Immunohiostchemistry)
GUCY2D Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human thyroid tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of GUCY2D Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
GUCY2D Antibody (Center) western blot analysis in Ramos cell line lysates (35ug/lane).This demonstrates the GUCY2D antibody detected the GUCY2D protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-GUCY2D antibody	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].
Product Categories/Family for anti-GUCY2D antibody	Neuroscience; Signal Transduction
References	Silva, L.K., et al. Eur. J. Hum. Genet. 18(11):1221-1227(2010) Liu, C.Y., et al. Carcinogenesis 31(7):1259-1263(2010) Joslyn, G., et al. Alcohol. Clin. Exp. Res. 34(5):800-812(2010) Pasadhika, S., et al. Invest. Ophthalmol. Vis. Sci. 51(5):2608-2614(2010) Sundaresan, P., et al. Mol. Vis. 15, 1781-1787 (2009) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504217
NCBI GeneID	3000
NCBI Accession #	NP_000171.1
NCBI GenBank Nucleotide #	NM_000180.3
UniProt Accession #	Q02846; Q6LEA7
Molecular Weight	120059
NCBI Official Full Name	retinal guanylyl cyclase 1
NCBI Official Synonym Full Names	guanylate cyclase 2D, membrane (retina-specific)
NCBI Official Symbol	GUCY2D
NCBI Official Synonym Symbols	LCA; CYGD; LCA1; RCD2; CORD5; CORD6; GUC2D; ROSGC; retGC; GUC1A4; RETGC-1; ROS-GC1
NCBI Protein Information	retinal guanylyl cyclase 1
UniProt Protein Name	Retinal guanylyl cyclase 1
UniProt Gene Name	**GUCY2D**
UniProt Synonym Gene Names	CORD6; GUC1A4; GUC2D; RETGC; RETGC1; RETGC-1; ROS-GC
UniProt Entry Name	GUC2D_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.