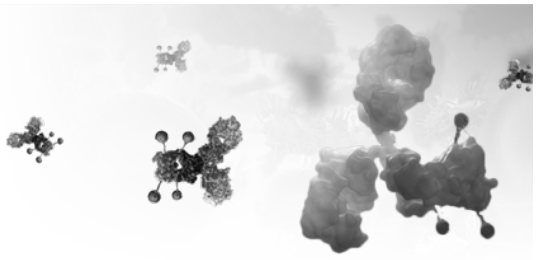

Mouse anti-Human GUCY2D monoclonal antibody, clone 2F7 (CABT-B10378)

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

PRODUCT INFORMATION

Immunogen	GUCY2D (NP_000171, 521 a.a. ~ 630 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Isotype	IgG
Source/Host	Mouse
Species Reactivity	Human
Clone	2F7
Conjugate	Unconjugated
Applications	WB,IF,sELISA,ELISA
Sequence Similarities	RKVAQGSRSSLGARSMSDIRSGPSQHLDSPNIGVYEGDRVWLKKFPGDQHIAIRPATKTA FSKLQELRHENVALYLGLFLARGAEGPAALWEGNLAVVSEHCTRGSLQDL
Format	Liquid
Size	100 µg
Buffer	In 1x PBS, pH 7.2
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

BACKGROUND

Introduction	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

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

	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]
Keywords	GUCY2D; guanylate cyclase 2D, membrane (retina-specific); LCA; CYGD; LCA1; RCD2; CORD5; CORD6; GUC2D; ROSGC; retGC; GUC1A4; RETGC-1; ROS-GC1; retinal guanylyl cyclase 1; ROS-GC; cone rod dystrophy 6; retinal guanylate cyclase 1; guanylate cyclase 2D, retinal; rod outer segment membrane guanylate cyclase;

GENE INFORMATION

Entrez Gene ID	3000
UniProt ID	Q02846
Pathway	Olfactory transduction, organism-specific biosystem; Olfactory transduction, conserved biosystem; Phototransduction, organism-specific biosystem; Phototransduction, conserved biosystem; Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem
Function	ATP binding; GTP binding; guanylate cyclase activity; identical protein binding; nucleotide binding; protein binding; protein kinase activity; receptor activity; transferase activity, transferring phosphorus-containing groups

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