

GUCY2D

Mouse monoclonal antibody raised against a partial recombinant GUCY2D. Catalog # AT2300a

Specification

GUCY2D - Product Information

Application
Primary Accession
Other Accession
Reactivity
Host
Clonality
Isotype
Calculated MW

WB, E 002846 NM_000180 Human Mouse monoclonal IgG1 Kappa 120059

GUCY2D - Additional Information

Gene ID 3000

Other Names

Retinal guanylyl cyclase 1, RETGC-1, Guanylate cyclase 2D, retinal, Rod outer segment membrane guanylate cyclase, ROS-GC, GUCY2D, CORD6, GUC1A4, GUC2D, RETGC, RETGC1

Target/Specificity

GUCY2D (NP_000171, 521 a.a. \sim 630 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000 E~~N/A

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2.

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

GUCY2D is for research use only and not for use in diagnostic or therapeutic procedures.

GUCY2D - Protocols

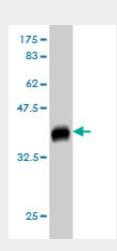
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

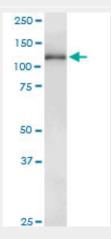


- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

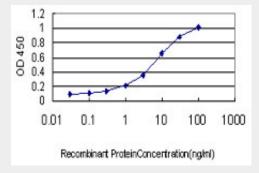
GUCY2D - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.73 KDa).



GUCY2D monoclonal antibody (M01), clone 4E12. Western Blot analysis of GUCY2D expression in human spleen.



Detection limit for recombinant GST tagged GUCY2D is approximately 0.1ng/ml as a capture antibody.

GUCY2D - Background





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This gene encodes a retina-specific quanylate cyclase, which is a member of the membrane quanylyl cyclase family. Like other membrane quanylyl 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 quanylyl 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.

GUCY2D - References

Dengue hemorrhagic fever is associated with polymorphisms in JAK1. Silva LK, et al. Eur J Hum Genet, 2010 Jun 30. PMID 20588308.A Large-scale genetic association study of esophageal adenocarcinoma risk. Liu CY, et al. Carcinogenesis, 2010 Jul. PMID 20453000.Human variation in alcohol response is influenced by variation in neuronal signaling genes. Joslyn G, et al. Alcohol Clin Exp Res, 2010 May. PMID 20201926. Differential macular morphology in patients with RPE65-, CEP290-, GUCY2D-, and AIPL1-related Leber congenital amaurosis. Pasadhika S, et al. Invest Ophthalmol Vis Sci, 2010 May. PMID 19959640. Mutations that are a common cause of Leber congenital amaurosis in northern America are rare in southern India. Sundaresan P, et al. Mol Vis, 2009 Sep 4. PMID 19753312.