

GUCY2D Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP11569c**Specification****GUCY2D Antibody (Center) Blocking peptide -
Product Information**Primary Accession [Q02846](#)**GUCY2D Antibody (Center) Blocking peptide -
Additional Information**

Gene ID 3000

Other NamesRetinal guanylyl cyclase 1, RETGC-1,
Guanylate cyclase 2D, retinal, Rod outer
segment membrane guanylate cyclase,
ROS-GC, GUCY2D, CORD6, GUC1A4,
GUC2D, RETGC, RETGC1**Format**Peptides are lyophilized in a solid powder
format. Peptides can be reconstituted in
solution using the appropriate buffer as
needed.**Storage**Maintain refrigerated at 2-8°C for up to 6
months. For long term storage store at
-20°C.**Precautions**This product is for research use only. Not
for use in diagnostic or therapeutic
procedures.**GUCY2D Antibody (Center) Blocking peptide -
Protein Information**

Name GUCY2D

FunctionCatalyzes the synthesis of cyclic GMP
(cGMP) in rods and cones of
photoreceptors. Plays an essential role in
phototransduction, by mediating cGMP
replenishment (PubMed: <http://www.uniprot.org/citations/21928830>
target="_blank">21928830),**GUCY2D Antibody (Center) Blocking
peptide - Background**

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].

**GUCY2D Antibody (Center) Blocking
peptide - 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) :

PubMed:30319355,
PubMed:26100624,
PubMed:9600905,
PubMed:15123990). May also participate in the trafficking of membrane-associated proteins to the photoreceptor outer segment membrane (By similarity).

Cellular Location

Photoreceptor outer segment membrane;
Single-pass type I membrane protein.
Endoplasmic reticulum membrane;
Single-pass type I membrane protein

Tissue Location

Retina..

GUCY2D Antibody (Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)