

GUCY2D Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP11569c**Specification**

GUCY2D Antibody (Center) Blocking peptide - Product InformationPrimary Accession [Q02846](#)**GUCY2D Antibody (Center) Blocking peptide - 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

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**Function**

Catalyzes the synthesis of cyclic GMP (cGMP) in rods and cones of photoreceptors. Plays an essential role in phototransduction, by mediating cGMP replenishment (PubMed:21928830, 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](#)

GUCY2D Antibody (Center) Blocking peptide - Images

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) :