

**GUCY2F Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP16965b****Specification**

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**GUCY2F Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [P51841](#)**GUCY2F Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 2986**Other Names**

Retinal guanylyl cyclase 2, RETGC-2, Guanylate cyclase 2F, retinal, Guanylate cyclase F, GC-F, Rod outer segment membrane guanylate cyclase 2, ROS-GC2, GUCY2F, GUC2F, RETGC2

**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.

**GUCY2F Antibody (C-term) Blocking Peptide - Protein Information****Name** GUCY2F**Synonyms** GUC2F, RETGC2**Function**

Responsible for the synthesis of cyclic GMP (cGMP) in rods and cones of photoreceptors (PubMed:&lt;a href="http://www.uniprot.org/citations/7777544" target="\_blank"&gt;7777544&lt;/a&gt;). Plays an essential role in phototransduction, by mediating cGMP replenishment (By similarity). May also participate in the trafficking of membrane-associated proteins to the photoreceptor outer segment membrane (By similarity).

**Cellular Location**

Photoreceptor outer segment membrane {ECO:0000250|UniProtKB:O02740}; Single-pass type I membrane protein

**Tissue Location**

Retina. Localized exclusively in the outer nuclear layer and inner segments of the rod and cone photoreceptor cells

## **GUCY2F Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **GUCY2F Antibody (C-term) Blocking Peptide - Images**

## **GUCY2F Antibody (C-term) Blocking Peptide - Background**

The protein encoded by this gene is a guanylyl cyclase found predominantly in photoreceptors in the retina. The encoded protein is thought to be involved in resynthesis of cGMP after light activation of the visual signal transduction cascade, allowing a return to the dark state. This protein is a single-pass type I membrane protein. Defects in this gene may be a cause of X-linked retinitis pigmentosa.

## **GUCY2F Antibody (C-term) Blocking Peptide - References**

Blackford, A., et al. Cancer Res. 69(8):3681-3688(2009) Helten, A., et al. J. Neurochem. 103(4):1439-1446(2007) Wood, L.D., et al. Hum. Mutat. 27(10):1060-1061(2006) Ross, M.T., et al. Nature 434(7031):325-337(2005) Laura, R.P., et al. Biochemistry 37(32):11264-11271(1998)