

**GUCA1B Antibody(N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP19456a****Specification**

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**GUCA1B Antibody(N-term) Blocking peptide - Product Information**Primary Accession [Q9UMX6](#)**GUCA1B Antibody(N-term) Blocking peptide - Additional Information****Gene ID** 2979**Other Names**

Guanylyl cyclase-activating protein 2, GCAP 2, Guanylate cyclase activator 1B, GUCA1B, GCAP2

**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.

**GUCA1B Antibody(N-term) Blocking peptide - Protein Information****Name** GUCA1B**Synonyms** GCAP2**Function**

Stimulates two retinal guanylyl cyclases (GCs) GUCY2D and GUCY2F when free calcium ions concentration is low, and inhibits GUCY2D and GUCY2F when free calcium ions concentration is elevated (By similarity). This Ca(2+)-sensitive regulation of GCs is a key event in recovery of the dark state of rod photoreceptors following light exposure (By similarity). May be involved in cone photoreceptor response and recovery of response in bright light (By similarity).

**Cellular Location**

Cell membrane {ECO:0000250|UniProtKB:P51177}; Lipid-anchor {ECO:0000250|UniProtKB:P51177}. Photoreceptor inner segment. Cell projection, cilium, photoreceptor outer segment Note=Subcellular location is not affected by light or dark conditions {ECO:0000250|UniProtKB:Q8VBV8}

**Tissue Location**

In the retina, it is expressed in cone and rod photoreceptor cells.

## **GUCA1B Antibody(N-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

## **GUCA1B Antibody(N-term) Blocking peptide - Images**

## **GUCA1B Antibody(N-term) Blocking peptide - Background**

The protein encoded by this gene is a calcium-binding protein that activates photoreceptor guanylate cyclases. This gene may have arisen due to a gene duplication event since there is a highly similar gene clustered with it on chromosome 6. Mutations in this gene can cause a form of retinitis pigmentosa. [provided by RefSeq].

## **GUCA1B Antibody(N-term) Blocking peptide - References**

Sato, M., et al. Graefes Arch. Clin. Exp. Ophthalmol. 243(3):235-242(2005)  
Nishiguchi, K.M., et al. Invest. Ophthalmol. Vis. Sci. 45(11):3863-3870(2004)  
Mungall, A.J., et al. Nature 425(6960):805-811(2003)  
Wistow, G., et al. Mol. Vis. 8, 196-204 (2002)  
Zhang, Q.J., et al. Yi Chuan 24(1):19-21(2002)