

GUCA1B Antibody(N-term) Blocking peptide

Synthetic peptide

Catalog # BP19456a

Specification

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)