

GCAP2 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP1568b**Specification**

GCAP2 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q9UMX6](#)**GCAP2 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 2979**Other Names**

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

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP1568b](/product/products/AP1568b) was selected from the C-term region of human GCAP2 . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

GCAP2 Antibody (C-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.

GCAP2 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

GCAP2 Antibody (C-term) Blocking Peptide - Images**GCAP2 Antibody (C-term) Blocking Peptide - Background**

GCAP2, a member of the guanylin peptide family, is an endogenous activator of intestinal guanylate cyclase (GC-C). Uroguanylin is expressed in the stomach and intestine and uroguanylin, as well as guanylin, may be a potent physiological regulator of intestinal fluid and electrolyte transport.

GCAP2 Antibody (C-term) Blocking Peptide - References

Surguchov, A., et al., Genomics 39(3):312-322 (1997). Wiegand, R.C., et al., FEBS Lett. 311(2):150-154 (1992). de Sauvage, F.J., et al., Proc. Natl. Acad. Sci. U.S.A. 89(19):9089-9093 (1992).