

Guanylyl Cyclase beta 1 (GUCY1B3) Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP8171c**Specification**

Guanylyl Cyclase beta 1 (GUCY1B3) Antibody (Center) Blocking peptide - Product Information

Primary Accession [O02153](#)
Other Accession [NP_000848](#)

Guanylyl Cyclase beta 1 (GUCY1B3) Antibody (Center) Blocking peptide - Additional Information

Gene ID 2983

Other Names

Guanylate cyclase soluble subunit beta-1, GCS-beta-1, Guanylate cyclase soluble subunit beta-3, GCS-beta-3, Soluble guanylate cyclase small subunit, GUCY1B3, GUC1B3, GUCSB3, GUCY1B1

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP8171c](/product/products/AP8171c) was selected from the Center region of human GUCY1B3. 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.

Guanylyl Cyclase beta 1 (GUCY1B3) Antibody (Center) Blocking peptide - Protein Information

Name GUCY1B1 ([HGNC:4687](#))

Function

Mediates responses to nitric oxide (NO) by catalyzing the biosynthesis of the signaling molecule cGMP.

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:P16068}.

Tissue Location

Detected in brain cortex and cerebellum (at protein level).

Guanylyl Cyclase beta 1 (GUCY1B3) Antibody (Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

Guanylyl Cyclase beta 1 (GUCY1B3) Antibody (Center) Blocking peptide - Images

Guanylyl Cyclase beta 1 (GUCY1B3) Antibody (Center) Blocking peptide - Background

Soluble guanylate cyclase (sGC), a heterodimeric protein consisting of an alpha and a beta subunit, catalyzes the conversion of GTP to the second messenger cGMP and functions as the main receptor for nitric oxide and nitrovasodilator drugs.

Guanylyl Cyclase beta 1 (GUCY1B3) Antibody (Center) Blocking peptide - References

Russwurm, M., et al., J. Biol. Chem. 276(48):44647-44652 (2001). Lucas, K.A., et al., Pharmacol. Rev. 52(3):375-414 (2000). Papapetropoulos, A., et al., J. Cell. Physiol. 167(2):213-221 (1996). Giuili, G., et al., Hum. Genet. 91(3):257-260 (1993). Giuili, G., et al., FEBS Lett. 304(1):83-88 (1992).