

**GUCY2C Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7136b****Specification****GUCY2C Antibody (C-term) Blocking Peptide -  
Product Information**Primary Accession [P25092](#)**GUCY2C Antibody (C-term) Blocking Peptide -  
Additional Information****Gene ID** 2984**Other Names**Heat-stable enterotoxin receptor, STA  
receptor, hSTAR, Guanylyl cyclase C, GC-C,  
Intestinal guanylate cyclase, GUCY2C,  
GUC2C, STAR**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [<a href=/product/products/AP7136b>AP7136b</a>](#) was selected from the C-term region of human GUCY2C. 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.

**GUCY2C Antibody (C-term) Blocking Peptide -  
Protein Information****Name** GUCY2C**GUCY2C Antibody (C-term) Blocking  
Peptide - Background**

Guanylyl cyclase C (GUCY2C) is a transmembrane receptor expressed primarily in the intestine that regulates chloride secretion via the cystic fibrosis transmembrane conductance regulator. Binding of GUCY2C to either the endogenous peptide guanylin or the bacterially derived heat-stable enterotoxin STa, results in increased levels of cGMP and the stimulation of water and chloride secretion. In the case of exposure to STa, this leads to debilitating secretory diarrhea.

**GUCY2C Antibody (C-term) Blocking  
Peptide - References**

Singh, R., J. Biol. Chem. 278(27):24342-24349 (2003). Tien, Y.W., et al., Clin. Cancer Res. 9(13):4891-4896 (2003). Scott, R.O., et al., J. Biol. Chem. 277(25):22934-22941 (2002). Jaleel, M., et al., Biol. Reprod. 67(6):1975-1980 (2002). Park, J., et al., Cancer Epidemiol. Biomarkers Prev. 11(8):739-744 (2002).

**Synonyms** GUC2C, STAR**Function**

Receptor for the E.coli heat-stable enterotoxin (E.coli enterotoxin markedly stimulates the accumulation of cGMP in mammalian cells expressing GC-C). Also activated by the endogenous peptides guanylin and uroguanylin.

**Cellular Location**

Cell membrane; Single-pass type I membrane protein Endoplasmic reticulum membrane; Single- pass type I membrane protein. Note=The 145 kDa plasma membrane form of GC-C contains sialic acid and galactose residues, while a differentially glycosylated 130 Kda form is a high mannose form that is resident in the endoplasmic reticulum and may serve as the precursor for the cell surface form

**GUCY2C Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)