

**FCGRT Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP19288b****Specification**

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**FCGRT Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [P55899](#)**FCGRT Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 2217**Other Names**

IgG receptor FcRn large subunit p51, FcRn, IgG Fc fragment receptor transporter alpha chain, Neonatal Fc receptor, FCGRT, FCRN

**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.

**FCGRT Antibody (C-term) Blocking Peptide - Protein Information****Name** FCGRT**Synonyms** FCRN**Function**

Cell surface receptor that transfers passive humoral immunity from the mother to the newborn. Binds to the Fc region of monomeric immunoglobulin gamma and mediates its selective uptake from milk (PubMed: [7964511](http://www.uniprot.org/citations/7964511)), PubMed: [10933786](http://www.uniprot.org/citations/10933786)). IgG in the milk is bound at the apical surface of the intestinal epithelium. The resultant FcRn-IgG complexes are transcytosed across the intestinal epithelium and IgG is released from FcRn into blood or tissue fluids. Throughout life, contributes to effective humoral immunity by recycling IgG and extending its half-life in the circulation. Mechanistically, monomeric IgG binding to FcRn in acidic endosomes of endothelial and hematopoietic cells recycles IgG to the cell surface where it is released into the circulation (PubMed: [10998088](http://www.uniprot.org/citations/10998088)). In addition of IgG, regulates homeostasis of the other most abundant circulating protein albumin/ALB (PubMed: [24469444](http://www.uniprot.org/citations/24469444)), PubMed: [28330995](http://www.uniprot.org/citations/28330995)).

**Cellular Location**

Cell membrane {ECO:0000250|UniProtKB:P13599}; Single-pass type I membrane protein.  
Endosome membrane

**Tissue Location**

Expressed in full-term placenta, heart, lung, liver, muscle, kidney, pancreas, and both fetal and adult small intestine.

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

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

- [Blocking Peptides](#)

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

This gene encodes a receptor that binds the Fc region of monomeric immunoglobulin G. The encoded protein transfers immunoglobulin G antibodies from mother to fetus across the placenta. This protein also binds immunoglobulin G to protect the antibody from degradation. Alternative splicing results in multiple transcript variants.

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

Mezo, A.R., et al. J. Biol. Chem. 285(36):27694-27701(2010)Freiberger, T., et al. Clin. Immunol. 136(3):419-425(2010)Han, S., et al. Hum. Immunol. 71(7):727-730(2010)Freiberger, T., et al. J. Reprod. Immunol. 85(2):193-197(2010)Mikulska, J.E., et al. Eur. J. Immunogenet. 27(4):231-240(2000)