

FCGRT Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP19288b**Specification****FCGRT Antibody (C-term) Blocking Peptide -
Product Information**Primary Accession [P55899](#)**FCGRT Antibody (C-term) Blocking Peptide -
Additional Information**

Gene ID 2217

Other NamesIgG 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

FunctionCell 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:**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)

target="_blank">7964511, PubMed: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). In addition of IgG, regulates homeostasis of the other most abundant circulating protein albumin/ALB (PubMed:24469444, PubMed: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](#)