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Anti-FcRn (FCGRT & B2M) Reference Antibody (rozanolixizumab)

Recombinant Antibody
Catalog # APR10262

Specification

Anti-FcRn (FCGRT & B2M) Reference Antibody (rozanolixizumab) - Product Information

Application	**FC, E, FTA**
Primary Accession	P55899
Reactivity	**Cynomolgus, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**IgG4SP**
Calculated MW	**145.2 KDa**

Anti-FcRn (FCGRT & B2M) Reference Antibody (rozanolixizumab) - Additional Information

Target/Specificity
FcRn (FCGRT & B2M)

Endotoxin
< 0.001EU/ μg,determined by LAL method.

Conjugation
Unconjugated

Expression system
CHO Cell

Format
Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

Anti-FcRn (FCGRT & B2M) Reference Antibody (rozanolixizumab) - 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:10933786, PubMed:7964511). 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:<a

href="http://www.uniprot.org/citations/10998088" target="_blank">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

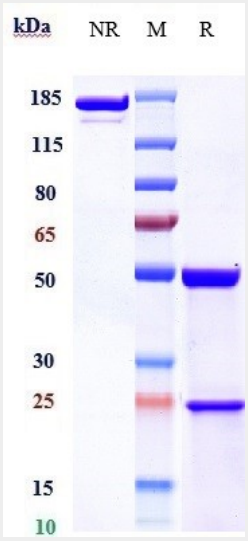
Tissue Location
Expressed in full-term placenta, heart, lung, liver, muscle, kidney, pancreas, and both fetal and adult small intestine.

Anti-FcRn (FCGRT & B2M) Reference Antibody (rozanolixizumab) - Protocols

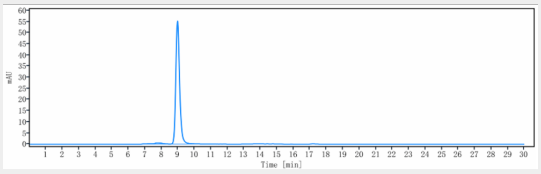
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-FcRn (FCGRT & B2M) Reference Antibody (rozanolixizumab) - Images



Anti-FcRn (FCGRT & B2M) Reference Antibody (rozanolixizumab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



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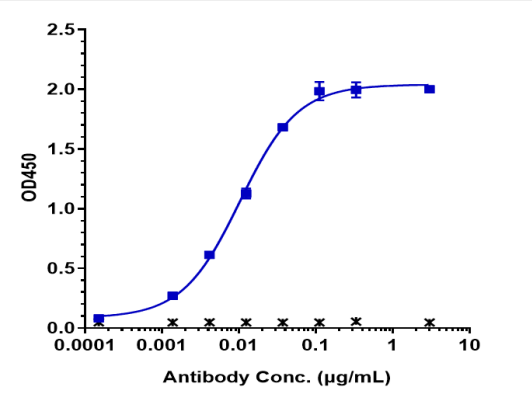
The purity of Anti-FcRn (FCGRT & B2M) Reference Antibody (rozanolixizumab)is more than 97.55% ,determined by SEC-HPLC.



Immobilized FcRn(FCGRT) His+FcRn(B2M) at 2 μg/mL can bind Anti-FcRn (FCGRT & B2M) Reference Antibody (rozanolixizumab)EC50=0.0103 μg/mL