

Anti-FcRn (FCGRT & B2M) Reference Antibody (orilanolimab) Recombinant Antibody Catalog # APR10263

Specification

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

Application Primary Accession Reactivity Clonality Isotype Calculated MW FC, Kinetics, Animal Model <u>P55899</u> Human Monoclonal IgG1 144.6 KDa

Anti-FcRn (FCGRT & B2M) Reference Antibody (orilanolimab) - 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 (orilanolimab) - 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:<a href="http://www.uniprot.org/citations/10933786"

target="_blank">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

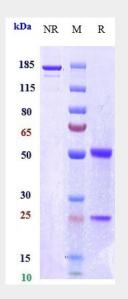
Tissue Location Expressed in full-term placenta, heart, lung, liver, muscle, kidney, pancreas, and both fetal and adult small intestine.

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

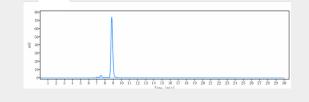
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

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

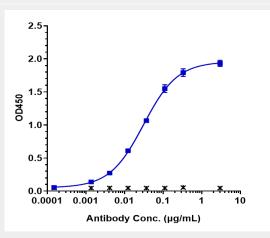


Anti-FcRn (FCGRT & B2M) Reference Antibody (orilanolimab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%





The purity of Anti-FcRn (FCGRT & B2M) Reference Antibody (orilanolimab)is more than 92.74% ,determined by SEC-HPLC.



Immobilized FcRn(FCGRT) His+FcRn(B2M) at 2 μ g/mL can bind Anti-FcRn (FCGRT & B2M) Reference Antibody (orilanolimab) EC50=0.0311 μ g/mL