10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

Recombinant Antibody
Catalog # APR10151

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	P55899
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	39743

Additional Information

Target/Specificity	FcRn (FCGRT & B2M)
Endotoxin	
Conjugation	Unconjugated
Expression system	CHO
Format	Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

Protein Information

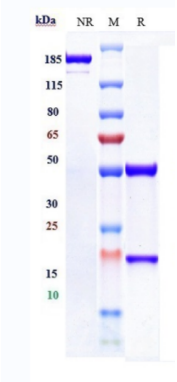
Name	FCGRT
Synonyms	FCRN
Function	Cell surface receptor that transfers passive humoral immunity from the mother to the newborn. Binds to the Fc region of monomeric immunoglobulin gamma and mediates its selective uptake from milk (PubMed:10933786, PubMed:7964511). IgG in the milk is bound at the apical 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: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

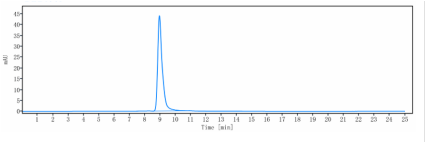
Tissue Location

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

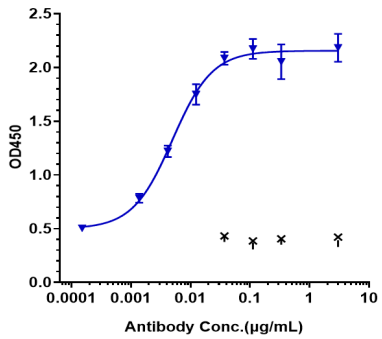
Images



Anti-FcRn (FCGRT & B2M) Reference Antibody (nipocalimab) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



The purity of Anti-FcRn (FCGRT & B2M) Reference Antibody (nipocalimab) is 100%, determined by SEC-HPLC.



Immobilized human FcRn/FCGRT&B2M Heterodimer protein, His and Avi tag at 2 ug/mL can bind nipocalimab, EC50=0.004948 ug/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.