

Datasheet for ABIN7539618

anti-FcRn antibody[Go to Product page](#)**5** Images**2** Publications

Overview

Quantity:	100 µg
Target:	FcRn
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This FcRn antibody is un-conjugated
Application:	ELISA, Immunofluorescence (IF), Flow Cytometry (FACS), Cell-ELISA (cELISA)

Product Details

Immunogen:	hFcRn
Clone:	DVN24
Isotype:	IgG2a kappa
Characteristics:	based on recognition of the complete native protein expressed on transfected mammalian cells
Purification:	Purified, Protein G

Target Details

Target:	FcRn
Alternative Name:	Fc Receptor (FcRn) FcRn (FcRn Products)
Background:	The MHC class I-like Fc receptor (FcRn) is an intracellular trafficking Fc receptor that is uniquely responsible for the extended serum half-life of antibodies of the IgG subclass and their ability to

Target Details

transport across cellular barriers. By performing these functions, FcRn affects numerous facets of antibody biology and pathobiology. Its critical role in controlling IgG pharmacokinetics has been leveraged for the design of therapeutic antibodies and related biologics. FcRn also traffics serum albumin and is responsible for the enhanced pharmacokinetic properties of albumin-conjugated therapeutics.

Synonyms: IgG receptor FcRn large subunit p51, Neonatal Fc receptor, FCGRT

UniProt: [P55899](#)

Pathways: [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#)

Application Details

Application Notes: Flow cytometry: 1.2 µg/10⁶ cells ELISA: 1:200 - 1:400 CELISA: 1:200 - 1:400 For each application a titration should be performed to determine the optimal concentration.

Restrictions: For Research Use only

Handling

Buffer: PBS pH 7.2 with 50% glycerol

Handling Advice: avoid repeated freezing and thawing

Storage: 4 °C

Publications

Product cited in: Hubbard, Pyzik, Rath, Kozicky, Sand, Gandhi, Grevys, Foss, Menzies, Glickman, Fiebiger, Roopenian, Sandlie, Andersen, Sly, Baker, Blumberg: "FcRn is a CD32a coreceptor that determines susceptibility to IgG immune complex-driven autoimmunity." in: **The Journal of experimental medicine**, Vol. 217, Issue 10, (2021) ([PubMed](#)).

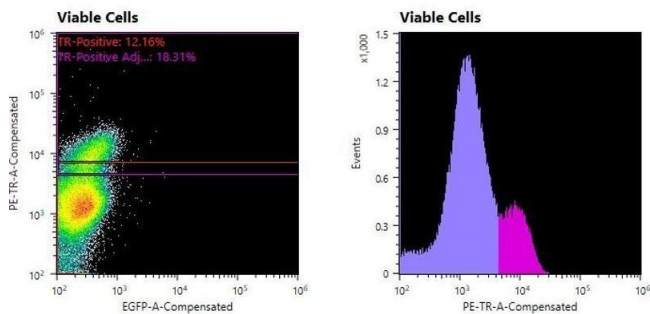
Cines, Zaitsev, Rauova, Rux, Stepanova, Krishnaswamy, Sarkar, Kowalska, Zhao, Mast, Blumberg, McCrae, Poncz, Hubbard, Pyzik, Blumberg: "FcRn augments induction of tissue factor activity by IgG-containing immune complexes." in: **Blood**, Vol. 135, Issue 23, pp. 2085-2093, (2021) ([PubMed](#)).

Grevys, Nilsen, Sand, Daba, Øynebråten, Bern, McAdam, Foss, Schlothauer, Michaelsen, Christianson, Roopenian, Blumberg, Sandlie, Andersen: "A human endothelial cell-based recycling assay for screening of FcRn targeted molecules." in: **Nature communications**, Vol. 9,

Issue 1, pp. 621, (2018) ([PubMed](#)).

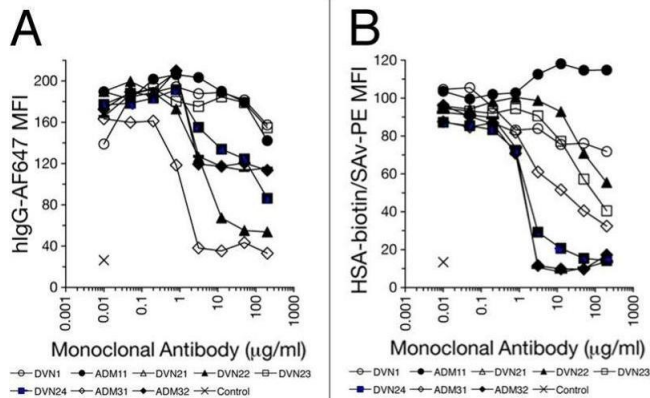
Sand, Dalhus, Christianson, Bern, Foss, Cameron, Sleep, Bjørås, Roopenian, Sandlie, Andersen: "Dissection of the neonatal Fc receptor (FcRn)-albumin interface using mutagenesis and anti-FcRn albumin-blocking antibodies." in: **The Journal of biological chemistry**, Vol. 289, Issue 24, pp. 17228-39, (2014) ([PubMed](#)).

Images



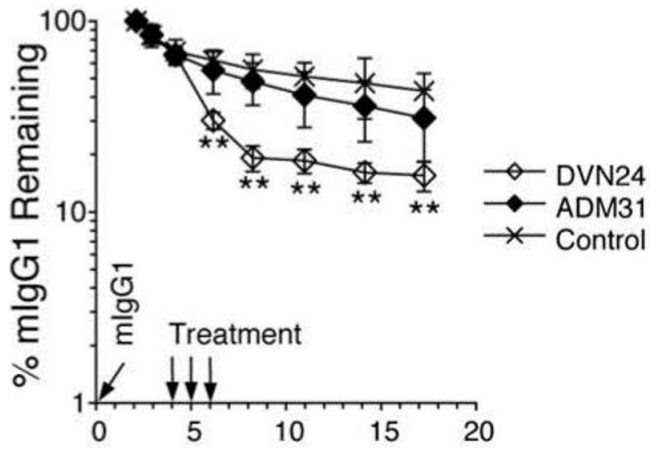
Flow Cytometry

Image 1. Flowcytometry of huSSECTM cell line overexpressing hFcRn-EGFP labeled with clone DVN24 primary Ab and Texas Red™ conjugated anti-mouse secondary.



Flow Cytometry

Image 2. 293hFcRn-GFP cells were incubated with a range of concentrations of DVN1, ADM11, DVN21, DVN22, DVN23, DVN24, ADM31 or ADM32 at pH 6, then stained for functional binding with (A) 20 µg/mL hlgGAF647, or (B) 200 µg/mL HSAbiotin followed by streptavidin-PE. Nonfunctional binding was indicated by the AF647 or PE MFIs of cells stained with labeled ligands at pH 7.2 (X). PMID: 22453095



ELISA

Image 3. Tracer plasma concentrations were determined by ELISA and plotted either as percent remaining as compared with the first time point plasma concentrations or as plasma concentrations \pm SD. PMID: 22453095

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN7539618.