

Datasheet for ABIN7539617
anti-FcRn antibody



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7 Images

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), Functional Studies (Func)

Product Details

Immunogen:	hFcRn
Clone:	ADM31
Isotype:	IgG2b lambda
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

Target Details

responsible for the extended serum half-life of antibodies of the IgG subclass and their ability to 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

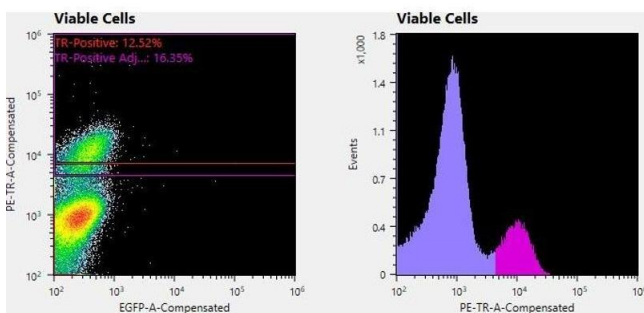
Handling

Buffer: PBS pH 7.2 with 50% glycerol

Handling Advice: avoid repeated freezing and thawing

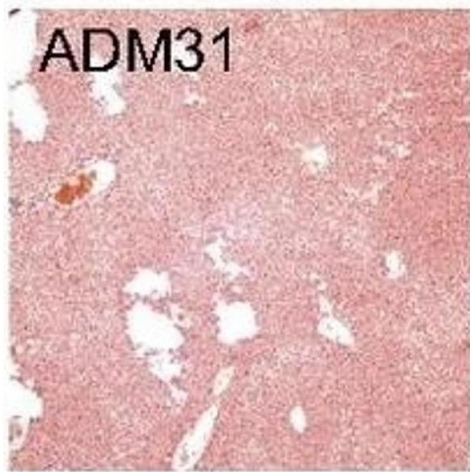
Storage: 4 °C

Images



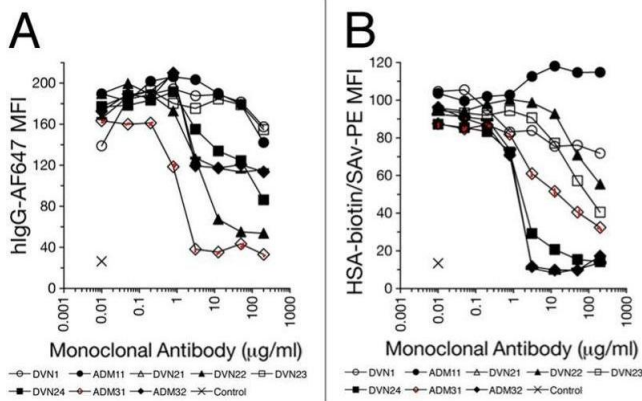
Flow Cytometry

Image 1. Flowcytometry of huSSECTM cell line overexpressing hFcRn-EGFP labeled with clone ADM31 primary Ab and Texas Red™ conjugated anti-mouse secondary.



Blocking Antibody

Image 2. Antibody- or peptide-mediated disruption of the human FcRn–albumin interactions decreases chemical hepatotoxicity. Liver H&E staining from PBS-treated FCGR2TG mice and FCGR2TG mice that received ADM31 16 h before APAP administration Source: PMID28330995



Flow Cytometry

Image 3. 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

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN7539617.