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Datasheet for ABIN1774763

## anti-FcRn antibody

2 Images

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### Overview

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

### Product Details

Immunogen:	Antibodies were generated by immunizing mouse FcRn-deficient mice with spleen cells from mice transgenic for human FcRn.
Clone:	DVN24
Isotype:	IgG2a
Characteristics:	based on recognition of the complete native protein expressed on transfected mammalian cells
Purification:	Purified, Protein A

### Target Details

Target:	FcRn
Abstract:	<a href="#">FcRn Products</a>
Background:	The MHC class I-like Fc receptor (FcRn) is an intracellular trafficking Fc receptor that is uniquely

## Target Details

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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

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Application Notes: Flow cytometry: 1.2 µg/10<sup>6</sup> 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

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Buffer: phosphate buffered saline, pH 7.2

Handling Advice: avoid repeated freezing and thawing

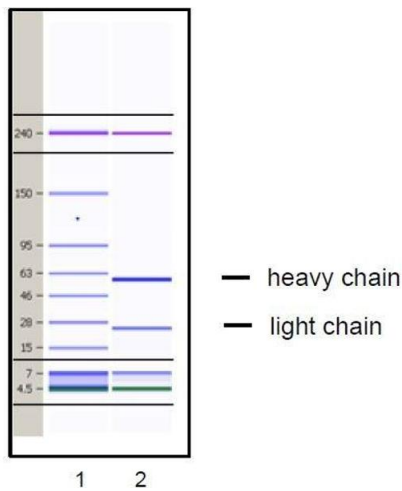
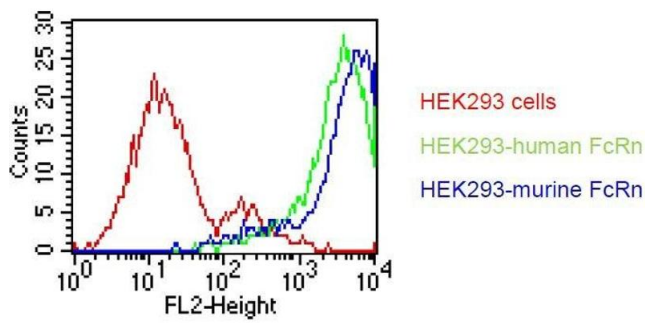
Storage: 4 °C

## Publications

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Product cited in: Xu, He, Momben-Abolfath, Vertrees, Li, Norton, Struble: "Zika Virus Infection and Antibody Neutralization in FcRn Expressing Placenta and Engineered Cell Lines." in: **Vaccines**, Vol. 10, Issue 12, (2022) ([PubMed](#)).

Christianson, Sun, Akilesh, Pesavento, Proetzel, Roopenian: "Monoclonal antibodies directed against human FcRn and their applications." in: **mAbs**, Vol. 4, Issue 2, pp. 208-16, (2014) ([PubMed](#)).



### Flow Cytometry

**Image 1.** HEK293 cells were transfected with an expression vector encoding either human FcRn (green curve) or murine FcRn (blue curve). Untransfected HEK293 cells were used as a negative control (red curve). Binding of DVN24 was detected with a PE conjugated secondary antibody. A positive signal was obtained with human and with murine FcRn transfected cells. \* DVN24 generally shows weaker reactivity towards mouse than human FcRn (Derry C. Roopenian, unpublished data)

**Image 2.** CGE analysis of purified DVN24 monoclonal antibody. Lane 1: molecular weight marker, Lane 2: 2 µg of purified DVN24 antibody. Proteins were separated by CGE (capillary gel electrophoresis, Agilent 2100 Bioanalyzer). Internal control bands (240 kDa / 7 kDa / 4,5 kDa).