

## Rabbit Anti-FCGRT/AF350 Conjugated antibody

SL13151R-AF350

<b>Product Name</b>	Anti-FCGRT/AF350
<b>Chinese Name</b>	AF350 标记的 IgG-Fc 片段受体 Transporter $\alpha$ 抗体
<b>Alias</b>	Alpha chain; Fc fragment of IgG, receptor transporter, alpha; FCGRN_HUMAN; FCGRT; FcRn alpha chain; FCRN; FCRN, alpha chain; IgG Fc fragment receptor transporter alpha chain; IgG Gc receptor; IgG receptor FcRn large subunit p51; IgG receptor FcRn large subunit p51 precursor; Immunoglobulin receptor, intestinal, heavy chain; Neonatal Fc receptor.
<b>Research Area</b>	Cell biology immunology The cell membrane 受体 vascular endothelial cell
<b>Immunogen Species</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>React Species</b>	Human,Mouse(predicted:Rat,Dog,Sheep)
<b>Applications</b>	Flow-Cyt=3 $\mu$ g/Test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight</b>	37kDa
<b>Form</b>	Lyophilized or Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	KLH conjugated synthetic peptide derived from human FCGRT/FcRn
<b>Lsotype</b>	IgG
<b>Purification</b>	affinity purified by Protein A
<b>Storage Buffer</b>	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol
<b>Storage</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>Product Detail</b>	<b>background:</b> FcRN present in the intestinal epithelium of neonatal mice and rats mediates

the selective uptake of immunoglobulin G (IgG) in mothers' milk, thereby helping newborn animals to acquire passive immunity. FcRn (also designated FCGRT, Brambell receptor, FcRn  $\alpha$  chain, IgG Gc receptor and neonatal Fc-receptor) is comprised of a heavy chain and  $\beta$ -2-Microglobulin. FcRn heavy chain shows approximately 35% amino acid identity to an MHC class I molecule. FcRn localizes in endosomes of vascular endothelial cells and selectively recycles IgG to the cell surface, thus protecting IgG from lysosomal catabolism. This protection mechanism is a major constituent for ensuring IgG are the longest lived of all plasma proteins.

**Function:**

Binds to the Fc region of monomeric immunoglobulins gamma. Mediates the uptake of IgG from milk. Possible role in transfer of immunoglobulin G from mother to fetus.

**Subunit:**

FcRn complex consist of two subunits: p51, and p14 which is equivalent to beta-2-microglobulin. It forms an MHC class I-like heterodimer (By similarity).

**Subcellular Location:**

Cell membrane.

**Similarity:**

Belongs to the immunoglobulin superfamily.  
Contains 1 Ig-like C1-type (immunoglobulin-like) domain.

**Database links:**

[Entrez Gene: 2217](#) Human

[Omin: 601437](#) Human

[SwissProt: P55899](#) Human

[Unigene: 111903](#) Human

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.