

Recombinant Mouse Fcgrt Protein, Myc/DDK-tagged

Cat. No. Fcgrt-2975M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length Fc receptor, IgG, alpha chain transporter (cDNA clone MGC:6014 IMAGE:3485649), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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. 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. In addition of IgG, regulates homeostasis of the other most abundant circulating protein albumin/ALB.
Molecular Mass	40.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Fcgrt Fc fragment of IgG receptor and transporter [<i>Mus musculus</i> (house mouse)]
Official Symbol	Fcgrt
Synonyms	Fcgrt; Fc fragment of IgG receptor and transporter; Fc; FcRn; IgG receptor FcRn large subunit p51; Fc receptor, IgG, alpha chain transporter; igG Fc fragment receptor transporter alpha chain; neonatal Fc receptor
Gene ID	14132
mRNA Refseq	NM_010189
Protein Refseq	NP_034319
UniProt ID	Q61559

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