

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 [Mus musculus (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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