

Recombinant Mouse Fcgr4 Protein, Myc/DDK-tagged

Cat. No. Fcgr4-2974M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length Fc receptor, IgG, low affinity IV (Fcgr4), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Receptor for the Fc region of immunoglobulin gamma. Also acts as a receptor for the Fc region of immunoglobulin epsilon. Binds with intermediate affinity to both IgG2a and IgG2b. Can bind to IgG2a and IgG2b monomers. Does not display binding to IgG1 or IgG3. Mediates neutrophil activation by IgG complexes redundantly with Fcgr3. Plays a role in promoting bone resorption by enhancing osteoclast differentiation following binding to IgG2a. Binds with low affinity to both the a and b allotypes of IgE. Has also been shown to bind to IgE allotype a only but not to allotype b. Binds aggregated IgE but not the monomeric form and bound monomeric IgG is readily displaced by IgE complexes. Binding to IgE promotes macrophage-mediated phagocytosis, antigen presentation to T cells, production of proinflammatory cytokines and the late phase of cutaneous allergic reactions.
Molecular Mass	28.8 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	Fcgr4 Fc receptor, IgG, low affinity IV [Mus musculus (house mouse)]
Official Symbol	Fcgr4
Synonyms	FCGR4; Fc receptor, IgG, low affinity IV; Fc gammaRIV; Fc receptor-like 3; Fc fragment of IgG, low affinity IIIa, receptor for (CD16); Fc fragment of IgG, low affinity III, receptor for (CD16); Fcrl3; CD16-2; FcgrIV; Fcgr3a; FcgammaRIV; 4833442P21Rik
Gene ID	246256
mRNA Refseq	NM_144559
Protein Refseq	NP_653142
UniProt ID	www.uniprot.org/uniprot/A0A0B4J1G0

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