Active Recombinant Mouse Fc Receptor, LgG, Low Affinity III, His-tagged

Cat. No. Fcgr3-488M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Fcgr3is expressed in Murine myeloma cell line, which has a molecule weight of 22.5kDa. Ala31 Thr215, with a Cterminal 10His tag.
Species	Mouse
Source	Mammalian Cells
Description	Receptors for the Fcregion of IgG (Fc γ Rs) are members of the Ig superfamily that function in theactivation or inhibition of immune responses such as degranulation, phagocytosis,ADCC (antibodydependent cellular toxicity), cytokine release, and B cell proliferation.The Fc γ Rs have been divided into three classes based on close relationshipsin their extracellular domains; these groups are designated Fc γ RI (also knownas CD64),The coordinated functioning of activating and inhibitory receptors isnecessary for successful initiation, amplification, and termination of immuneresponses. Mouse CD16 is encoded by a single gene. The protein product is a typeI transmembrane protein having two extracellular Iglike domains. It is expressedon a variety of myeloid and lymphoid cells and associates with Fc Rγ to deliveran activating signal upon ligand binding. Mouse CD32 is closely related to mouseCD16 throughout its extracellular domain (95% amino acid sequence identity), buthas a divergent cytoplasmic domain and functions as an inhibitory receptor. Togetherthese proteins constitute an activating/inhibiting receptor pair to regulate immuneresponses.

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Form	Supplied as a 0.2 μmfiltered solution in PBS.
N-terminal Sequence	Ala31
Molecular Weight	22.5 kDa
Activity	Measured by its abilityto bind mouse IgG with an estimated KD < 15 nM.
Purity	>95%, by SDSPAGEunder reducing conditions and visualized by silver stain.
Endotoxin Level	<1.0 EU per 1 μg ofthe protein by the LAL method.
Storage	Use a manual defrostfreezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt,-20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution.3 months, -20 to -70 °C under sterile conditions after reconstitution.
OfficialSymbol	Fcgr3

GENE INFORMATION

Gene Name	Fcgr3 Fc receptor, IgG, low affinityIII [Mus musculus]
Synonyms	Fcgr3; Fc receptor, IgG,low affinity III; CD16; fcRIII; low affinity immunoglobulin gamma Fc region receptorIII; FcgammaRIII; fc-gamma RIII; Fcg receptor III; igG Fc receptor III; Fc gammareceptor III
Gene ID	14131
mRNA Refseq	NM_010188

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Protein Refseq	NP_034318
Chromosome Location	1 H3; 1 92.3 cM
Pathway	Adaptive Immune System;Immune System; Immunoregulatory interactions between a Lymphoid and a non-Lymphoidcell; Leishmaniasis; Natural killer cell mediated cytotoxicity; Osteoclast differentiation;Phagosome; Staphylococcus aureus infection; Systemic lupus erythematosus; Tuberculosis
Function	IgG binding; IgG receptoractivity; receptor activity

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