

Active Recombinant Cynomolgus FCGR1A protein, His-Avi-tagged, Biotinylated

Cat. No. FCGR1A-3818C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Cynomolgus FCGR1A Protein (Val11-Pro288) is produced by HEK293 expression system. This protein is fused with a His-Avi tag at the C-terminal. The protein has a calculated MW of 34.8 kDa. The protein migrates as 40-50 kDa under reducing (R) con
Species	Cynomolgus
Source	HEK293
ProteinLength	Val11-Pro288
Description	Receptors that recognize the Fc portion of IgG are divided into three groups designated Fc gamma RI, RII, and RIII, also known respectively as CD64, CD32, and CD16. Fc gamma RI binds IgG with high affinity and functions during early immune responses. Fc gamma RII and RIII are low affinity receptors that recognize IgG as aggregates surrounding multivalent antigens during late immune responses. High affinity immunoglobulin gamma Fc receptor I is also known as FCGR1A, FCG1, FCGR1, CD64 and IGFR1, is a type of integral membrane glycoprotein that binds monomeric IgG-type antibodies with high affinity, which belongs to the immunoglobulin superfamily or FCGR1 family. FCGR1A / CD64 contains 3 Ig-like C2-type (immunoglobulin-like) domains. CD64 is constitutively found on only macrophages and monocytes, but treatment of polymorphonuclear leukocytes with cytokines like IFN γ and G-CSF can induce CD64 expression on these cells.

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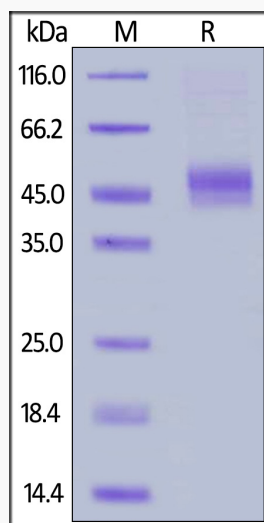
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Predicted N Terminal	Val 11
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
Bio-activity	Immobilized FMC63 at 1 µg/mL (100 µL/well) can bind Biotinylated Cynomolgus CD64, His,Avitag (BLI verified) with a linear range of 0.2-10 ng/mL. Loaded Biotinylated Cynomolgus CD64, His,Avitag (BLI verified) on SA Biosensor, can bind Herceptin with an aff
Molecular Mass	34.8 kDa
Endotoxin	<1.0 EU per µg by the LAL method.
Purity	>90% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: 4-8 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Conjugation	Biotin
GENE INFORMATION	
Synonyms	FCGR1A; FCG1; FCGR1; IGFR1; CD64; CD64A; FCRI;

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Biotinylated Cynomolgus CD64, His,Avitag (BLI verified) on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

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