

32-8906: Recombinant Mouse Low Affinity IgG Fc Receptor IV/FcγR4/CD16-2 (C-6His)

Gene : Fcgr4
Gene ID : 246256
Uniprot ID : Q8R2R4

Description

Source: Human Cells.
MW :21.9kD.

Recombinant Mouse Low Affinity Immunoglobulin Gamma Fc Region Receptor IV is produced by our Mammalian expression system and the target gene encoding Gly21-Gln203 is expressed with a 6His tag at the C-terminus. Fcgr4, also known as CD16-2, is one of the receptors for Fc region of IgG which involve in immune responses. Fcgr4 mainly functions in cellular response to lipopolysaccharide, NK T cell proliferation, regulation of sensory perception of pain, wound healing etc. Three groups are included for Fc gamma receptors (FcR), and they are Fc gamma RI (CD64), Fc gamma RII (CD32), and Fc gamma RIII (CD16). Among these, CD64 possess high affinity even for monomeric IgG, while CD32 and CD16 display a relative lower affinity for IgG. Genes encode these receptors are diverse differing by species and cell types. The aggregation of FcR having immunoreceptor tyrosine-based activation motifs (ITAMs) activates sequentially src family tyrosine kinases and syk family tyrosine kinases that connect transduced signals to common activation pathways shared with other receptors. FcR with ITAMs elicit cell activation, endocytosis, and phagocytosis. Fcgr4 belongs to Fc gamma RIII (CD16) group.

Product Info

Amount : 10 µg / 50 µg
Content : Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.
Storage condition : Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.
Amino Acid : GLQKAVVNLDPKWVRVLEEDSVTLRCQGTFSPEDNSIKWFHNESLIPHQDANYVIQSARVKDSGMYRCQTALS
TISDPVQLEVHMGWLLLTQTKWLFQEGDPIHLRCHSWQNRPVKVTYSQNGKGKKYFHENSELLIPKATHNDS
GSYFCRGLIGHNNKSSASFRISLGDPSMFPFWHQVDHHHHHH

Application Note

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.

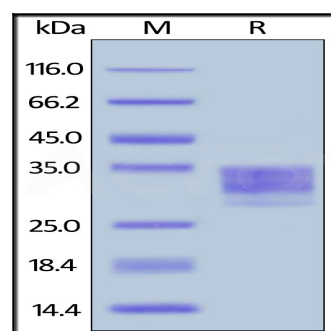


Fig. 1: Mouse CD16-2, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The protein has a calculated MW of 21.9 kDa. The protein migrates as 28-35 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation. The purity of the protein is greater than 90%.