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32-8897: Recombinant Human Fc gamma RIIIA/FCGR3A/CD16a (C-6His,Val176Phe)

Gene : FCGR3A
Gene ID : 2214
Uniprot ID : P08637

Description

Source: Human Cells.
MW :22.7kD.
Recombinant Human Fc gamma RIIIA is produced by our Mammalian expression system and the target gene encoding Gly17-Gln208(Val176Phe) is expressed fused with a 6His tag at the C-terminus. Receptors for the Fc region of immunoglobin G (Fc gamma R) are divided into three classes and Fc gamma RIII is a multifunctional, low/intermediate affinity receptor. In humans, Fc gamma RIII is expressed as two distinct forms (Fc gamma RIIIA and Fc gamma RIIIB) that are encoded by two different but highly homologous genes in a cell type-specific manner. Fc gamma RIIIB is a low-affinity, GPI-linked receptor expressed by neutrophils and eosinophils, whereas Fc gamma RIIIA is an intermediate affinity polypeptide-anchored transmembrane glycoprotein expressed by a subset of T lymphocytes, natural killer (NK) cells, monocytes, and macrophages. The Fc gamma RIIIA receptor is involved in phagocytosis, secretion of enzymes, inflammatory mediators, antibody-dependent cellular cytotoxicity (ADCC), mast cell degranulation, and clearance of immune complexes. Fc gamma RIIIA has an immunoreceptor tyrosine-based activation motif (ITAM) in its cytoplasmic domain and delivers an activation signal in the immune responses. Aberrant expression or mutations in this gene is implicated in susceptibility to recurrent viral infections, systemic lupus erythematosus, and alloimmune neonatal neutropenia. In humans, it is a 50 -70 kD type I transmembrane activating receptor.

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 :	GMRTEDLPKAVVFLEPQWYRVLEKDSVTLKCQGAYSPEDNSTQWFHNESLISSQASSYFIDAATVDDSGEYRC QTNLSTLSDPVQLEVHIGWLLLQAPRWVFKEEDPIHLRCHSWKNTALHKVTYLQNGKGRKYFHHNSDFYIPKAT LKDSGSYFCRGLFGSKNVSSETVNITITQGLAVSTISSFFPPGYQHHHHHH

Application Note

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