

Product datasheet for **TP727659**

CD16 (FCGR3A) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Fc γ R IIIA/FCGR3A/CD16a (C-6His,Val176Phe)
Species:	Human
Expression cDNA Clone or AA Sequence:	Gly17-Gln208(Val176Phe)
Tag:	C-His
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Note:	Recombinant Human Fc gamma R IIIA is produced by our Mammalian expression system and the target gene encoding Gly17-Gln208 is expressed with a 6His tag at the C-terminus.
Stability:	12 months from date of despatch
Locus ID:	2214
UniProt ID:	P08637
Summary:	Receptors for the Fc region of immunoglobulin G (Fc γ R) are divided into three classes and Fc γ R III is a multifunctional, low/intermediate affinity receptor. In humans, Fc γ R III is expressed as two distinct forms (Fc γ R IIIA and Fc γ R IIIB) that are encoded by two different but highly homologous genes in a cell type-specific manner. Fc γ R IIIB is a low-affinity, GPI-linked receptor expressed by neutrophils and eosinophils, whereas Fc γ R IIIA is an intermediate affinity polypeptide-anchored transmembrane glycoprotein expressed by a subset of T lymphocytes, natural killer (NK) cells, monocytes, and macrophages. The Fc γ R IIIA receptor is involved in phagocytosis, secretion of enzymes, inflammatory mediators, antibody-dependent cellular cytotoxicity (ADCC), mast cell degranulation, and clearance of immune complexes. Fc γ R IIIA 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.



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