

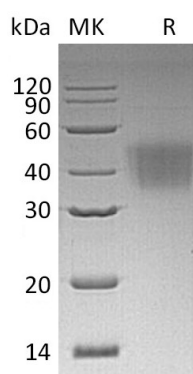
Product Name: Recombinant Human CD16a (F176,C-6His)
Catalog #: PHH0632



Summary

| | |
|---------------------------------|--|
| Name | Fc gamma RIIIA/CD16a/FCGR3A (F176) |
| Purity | Greater than 95% as determined by reducing SDS-PAGE |
| Endotoxin level | <1 EU/μg as determined by LAL test. |
| Construction | Recombinant Human Fc Gamma RIIIA (F176) is produced by our Mammalian expression system and the target gene encoding Gly17-Gln208 is expressed with a 6His tag at the C-terminus. It is identical to FCGR3A158F/V in the reference. |
| Accession # | P08637 |
| Host | Human Cells |
| Species | Human |
| Predicted Molecular Mass | 22.7 KDa |
| Formulation | Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below. |
| Stability&Storage | Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles. |
| Reconstitution | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. |

SDS-PAGE image



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Background

Alternative Names

Low Affinity Immunoglobulin Gamma Fc Region Receptor III-A; CD16a Antigen; Fc-Gamma RIII-Alpha; Fc-Gamma RIII; Fc-gamma RIIIa; FcRIII;FcRIIIa; FcR-10; IgG Fc Receptor III-2; CD16a; FCGR3A; CD16A; FCG3; FCGR3; IGFR3

Background

Receptors for the Fc region of immunoglobulin G (FcγR) are divided into three classes and FcγRIII is a multifunctional, low/intermediate affinity receptor. In humans, FcγRIII is expressed as two distinct forms (FcγRIIIA and FcγRIIIB) that are encoded by two different but highly homologous genes in a cell type-specific manner. FcγRIIIB is a low-affinity, GPI-linked receptor expressed by neutrophils and eosinophils, whereas FcγRIIIA is an intermediate affinity polypeptide-anchored transmembrane glycoprotein expressed by a subset of T lymphocytes, natural killer (NK) cells, monocytes, and macrophages. The FcγRIIIA receptor is involved in phagocytosis, secretion of enzymes, inflammatory mediators, antibody-dependent cellular cytotoxicity (ADCC), mast cell degranulation, and clearance of immune complexes. FcγRIIIA 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.

Note

For Research Use Only , Not for Diagnostic Use.