

Anti-human CD16 Antibody (Clone: 3G8) | PA007277.h1Fs

Catalog No.: PA007277.h1Fs | Isotype: Human IgG1 Fc Silent Kappa | In Vivo Grade

The human CD16 Fc blocking antibody (3G8 Fc blocking antibody) is an anti-human Fc receptor antibody for human FcR blocking reagent. Condition of sample preparation and optimal sample dilution should be determined experimentally by the investigator.

Product Specifications

Catalog No.	PA007277.h1Fs
Product Name	In vivo Grade Recombinant Anti-human CD16 Monoclonal Antibody (Clone: 3G8), Human IgG1 Fc Silent Kappa
Clone & Isotype	3G8 Human IgG1 Fc Silent Kappa
Synonyms	cluster of differentiation 16, Fc gamma RIIIA and Fc gamma RIIB, Human Fc Receptor Blocking Antibody
Applications	ELISA, flow cytometry, neutralization, functional assays such as bioanalytical PK and ADA assays, and those assays for studying biological pathways affected by the human CD16 protein. Human Fc receptor blocking solution, human Fc receptor blocking reagent, and human Fc receptor blocking antibody.
Reactivity & Immunogen	Human, non-human primate CD16. Recombinant human CD16 / Fc gamma RIII.
Immunogen / Host	The anti-human CD16 monoclonal antibody (clone: 3G8) was produced in mammalian cells.
Purification	The in vivo grade recombinant anti-human CD16 monoclonal antibody was affinity-purified by protein A.
Purity & Endotoxin	>95% by SDS-PAGE under reducing conditions and HPLC. < 1 EU per 1 mg of the protein by the LAL method.
Formulation	0.2 uM filtered solution, pH 7.4, no stabilizers or preservatives.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month from date of receipt, 2 to 8°C as supplied.

Biological Description & Background

The recombinant 3G8 antibody binds to human and non-human primate CD16 or FcγRIII, a cluster of differentiation molecule found on the surface of natural killer cells, neutrophils, monocytes, macrophages, and certain T cells. CD16 consists of Fc receptors FcγRIIIa (CD16a) and FcγRIIIb (CD16b). The most well-researched membrane receptor implicated in triggering lysis by NK cells, CD16 is a molecule of the immunoglobulin superfamily (IgSF) involved in antibody-dependent cellular cytotoxicity (ADCC). It can be used to isolate populations of specific immune cells through fluorescent-activated cell sorting (FACS) or magnetic-activated cell sorting, using antibodies directed towards CD16.

Ordering & Technical Support

- For custom volume ordering or inquiries, please visit the product webpage or contact our support team:
- **Product Webpage:** <https://www.ushelf.com/anti-human-cd16-monoclonal-antibody-pa007277-h1fs/>
 - **Order Phone:** 1-617-401-8149 | **Fax:** 1-617-606-5022
 - **Support Email:** message@sydlabs.com