

Monoclonal Anti-Human CD16 Antibody, Humanized IgG1 (HPLC verified)

Ultra-low endotoxin

Ultra-high purity

Ultra-high bioactivity

Catalog# / Size AC67590/500ug

Clone 3G8

Isotype Humanized IgG1

Endotoxin Less than 0.001 EU per µg determined by LAL gel

clotting assay.

Purity >95% as determined by SDS-PAGE.

>95% as determined by SEC-HPLC.

Antibody Type Monoclonal

Expressed Host Stable CHO cell line
Application NK cell culture, FACS

Product Details

Reactivity Human

Concentration 1.0 mg/mL

Form Liquid

Antibody Type Monoclonal

Formulation Supplied as 0.2 µm filtered solution in PBS, pH7.4.

Storage instructions Shipped at 4°C. Stored at 4°C for 12 months.

Other Names CD16A,CD16B,Fc-gamma RIII

Description

CD16 (FCGR3A) is a 50-65 kDa cell surface molecule that exists in two forms a transmembranous form expressed by NK cells and some T cells, and a phosphatidylinositol linked form expressed by granulocytes. This 3G8 monoclonal antibody reacts with human and non-human primate CD16, which is also known as the low-affinity Fc gamma RIII. CD16 exists as two distinct isoforms, Fc gamma RIIIA and Fc gamma RIIIB. Binding of IgG to either CD16 isoform induces signaling pathways that modulate several types of responses, including antibody-dependent cell-mediated cytotoxicity (ADCC), This monoclonal antibody has been reported to have several functional activities, including inhibition of cytotoxic ability, activation of cell signaling, and NK cell depletion in vivo.

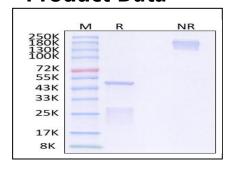


Please feel free to contact us via support@acnovia.com if you need any further information.

Application References

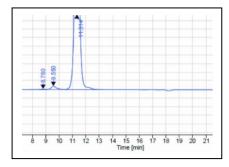
- 1、Seeling M et al. (2013). Proc Natl Acad Sci USA 110(26): 10729-34.
- 2、Choi El et al. (2008). Immunology 124(2): 215-22.
- 3、Rogers KA et al. (2006). J Immunol 177(6): 3848-56.
- 4、Wirthmueller U et al. (1992). J Exp Med 175(5): 1381-90.

Product Data



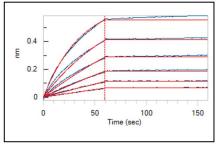
SDS-PAGE

Monoclonal Anti-Human CD16 Antibody, Humanized IgG1 (Clone: 3G8) (Catalog#AC67590) on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.



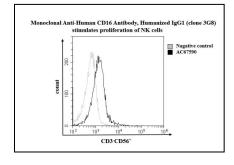
SEC-HPLC

Monoclonal Anti-Human CD16 Antibody, Humanized IgG1 (Clone: 3G8) (Catalog#AC67590) on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.



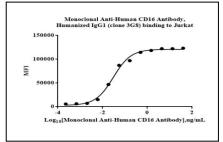
Bioactivity-BLI

Loaded Human Fc gamma RIII, can bind Monoclonal Anti-Human CD16 Antibody, Humanized IgG1 (Clone: 3G8) (Catalog#AC67590) with an affinity constant of 4.225 pM as determined in BLI assay (Octet Red96e).



Bioactivity-FACS

Monoclonal Anti-Human CD16 Antibody, Humanized IgG1 (Clone: 3G8) (Catalog#AC67590)stimulates proliferation of NK cells.



Bioactivity-Cell based assay

Monoclonal Anti-Human CD16 Antibody, Humanized IgG1 (Clone: 3G8) (Catalog#AC67590) bingding to Jurkat. The ED50 for this effect is 0.03024 ug/mL.