

Monoclonal Anti-CD16 Antibody, Mouse IgG1 (Clone: 3G8) (MALS verified)

Catalog # CD6-M782G0



BIOSYSTEMS
Acro
Surprise Inside!

Source

Monoclonal Anti-CD16 Antibody, Mouse IgG1 (Clone: 3G8) (CD6-M782G0) is recombinantly produced from human 293 cells (HEK293).

Isotype

Mouse IgG1/kappa

Conjugate

Unconjugated

Specificity

This product is a specific antibody specifically reacts with CD16/Fc gamma RIII.

Endotoxin

Less than 0.002 EU per μg by the LAL method.

Protein A

<5 ppm of protein tested by ELISA.

Host Cell Protein

<0.5 ng/ μg of protein tested by ELISA.

Host Cell DNA

<0.02 ng/ μg of protein tested by qPCR.

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Sterility

Negative

Formulation

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

Contact us for customized product form or formulation.

Shipping

This product is supplied and shipped with dry ice, please inquire the shipping cost.

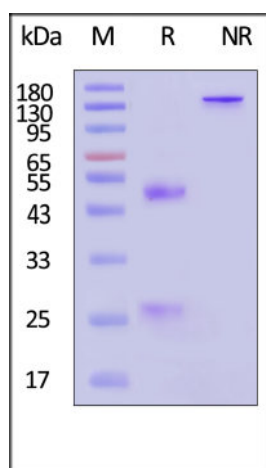
Storage

For long term storage, the product should be stored at liquid state at -70°C .

This product is stable after storage at:

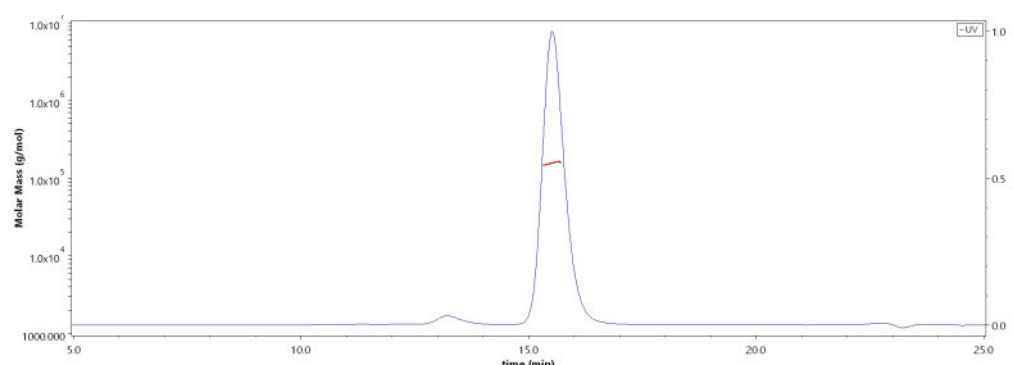
- $2-8^{\circ}\text{C}$ for 3 months under sterile condition;
- -70°C for 24 months.

SDS-PAGE



Monoclonal Anti-CD16 Antibody, Mouse IgG1 (Clone: 3G8) on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Monoclonal Anti-CD16 Antibody, Mouse IgG1 (Clone: 3G8) (Cat. No. CD6-M782G0) is more than 95% and the molecular weight of this protein is around 135-165 kDa verified by SEC-MALS. [Report](#)

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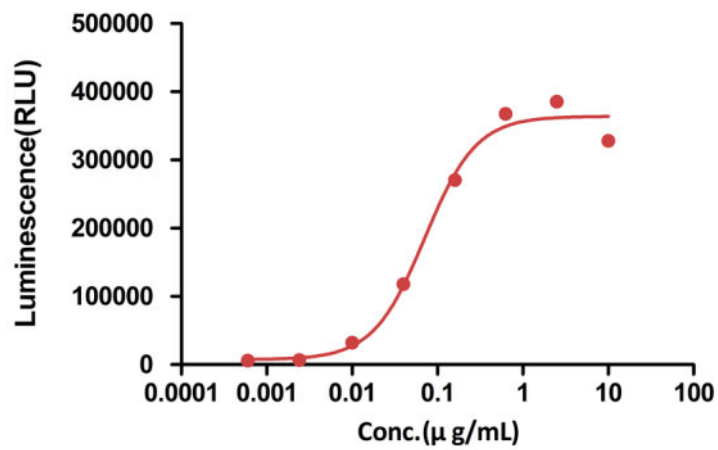
8/22/2024

Monoclonal Anti-CD16 Antibody, Mouse IgG1 (Clone: 3G8) (MALS verified)

Catalog # CD6-M782G0



Monoclonal Anti-CD16 Antibody, Mouse IgG1 (Clone 3G8) stimulates Human CD16a (158V) (Luc) Jurkat Reporter Cell



Monoclonal Anti-CD16 Antibody, Mouse IgG1 (Clone 3G8) (Cat. No. CD6-M782G0) stimulates Human CD16a (158V) (Luc) Jurkat Reporter Cell. The EC50 is 0.071 µg/mL (Routinely tested).

Background

CD16 encodes a receptor that recognizes the Fc portion of immunoglobulin G and is involved in the clearance of immune complexes from the circulation, as well as other functions such as cellular mediated cytotoxicity and enhancement of virus infections. This gene, FCGR3A, shares a high degree of similarity with another nearby gene, FCGR3B, located on chromosome 1. The receptor encoded by this gene is expressed on natural killer (NK) cells as an integral membrane glycoprotein anchored through a transmembrane peptide, while FCGR3B is expressed on polymorphonuclear neutrophils (PMN) where the receptor is anchored through a phosphatidylinositol (PI) linkage. Mutations in this gene have been associated with immunodeficiency 20 and have been linked to susceptibility to recurrent viral infections, susceptibility to systemic lupus erythematosus, and alloimmune neonatal neutropenia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. Diseases associated with FCGR3A include Immunodeficiency 20 and Herpes Zoster.

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