Monoclonal Anti-CD16 Antibody, Mouse IgG1 (Clone: 3G8), Research Grade

Catalog # CD6-CH29GN

Features and Advantages

- Native Conformation: Native sequences, tag-free and natural function.
- Reliable Activity: Biological activity calibrated against WHO/NIBSC standards.
- Stringent Quality Control: Protein content, purity, and cell-based bioactivity testing for each batch.
- Lowest Endotoxin level (<0.01 EU/ug).
- Safety Assurance: Sterile filtration through 0.2 μm membrane.
- AOF: Animal origin-free raw materials throughout the production process.

Source

Monoclonal Anti-CD16 Antibody, Mouse IgG1 (Clone: 3G8), Research Grade (CD6-CH29GN) is recombinantly produced from CHO cells.

Isotype

Mouse IgG1 | Mouse kappa

Conjugate

Unconjugated

Specificity

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

Endotoxin

Less than 0.002 EU per μg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

Formulation

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

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 or below.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -70°C for 3 years;
- -20°C for 12 months under sterile conditions;
- 2-8°C for 6 months under sterile conditions.

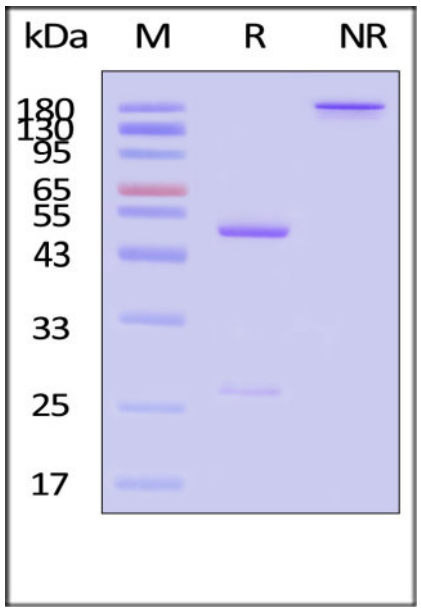
ACRO Quality Management System

- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

Quality Description

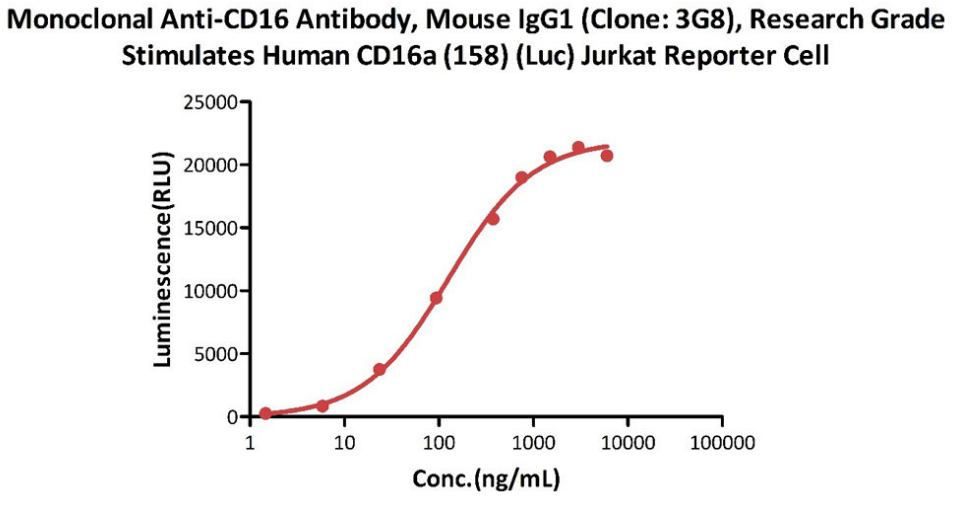
ACRO's Research-grade products are suitable for a wide range of cell culture applications, particularly for research use in academic institutions. These products are sterilized by filtration, followed by lyophilization where applicable. Typical specifications include endotoxin levels of <0.01 EU/μg and purities >95%. Biological activity is calibrated against WHO/NIBSC standards when available.
ACRO's Premium-grade (Pre-GMP) products are characterized by their high quality and enhanced safety profiles, making them ideal for early-stage discovery and manufacturing processes in cell therapy companies. A key advantage is their seamless transition to corresponding GMP-grade versions. Biological activity is calibrated against WHO/NIBSC standards when available. Typical specifications include endotoxin levels of <0.01 EU/μg and purities >95%. In addition, rigorous testing is conducted to ensure the absence of mycoplasma, HCD, and HCP, thereby guaranteeing product safety.

SDS-PAGE



Monoclonal Anti-CD16 Antibody, Mouse IgG1 (Clone: 3G8), Research Grade 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).

Bioactivity-CELL BASE



Monoclonal Anti-CD16 Antibody, Mouse IgG1 (Clone: 3G8), Research Grade (Cat. No. CD6-CH29GN) stimulates Human CD16a (158V) (Luc) Jurkat Reporter Cell. The typical EC50 for this effect is 126.4 ng/mL (QC 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.