

Monoclonal Anti-Human CD28 Antibody, Research Grade

Catalog # CD8-C112GN



BIOSYSTEMS
Acro

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-Human CD28 Antibody, Research Grade (CD8-C112GN) is recombinantly produced from human 293 cells (HEK293).

Isotype

Mouse IgG1 | Mouse Kappa

Specificity

This product is a specific antibody specifically reacts with CD28.

Endotoxin

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

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

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.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- 2-8°C for 12 months under sterile conditions;
- -70°C for 24 months.

ACRO Quality Management System

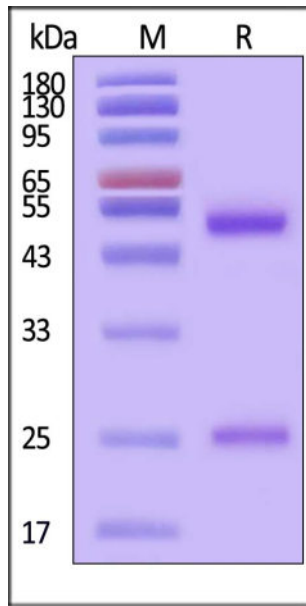
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

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.

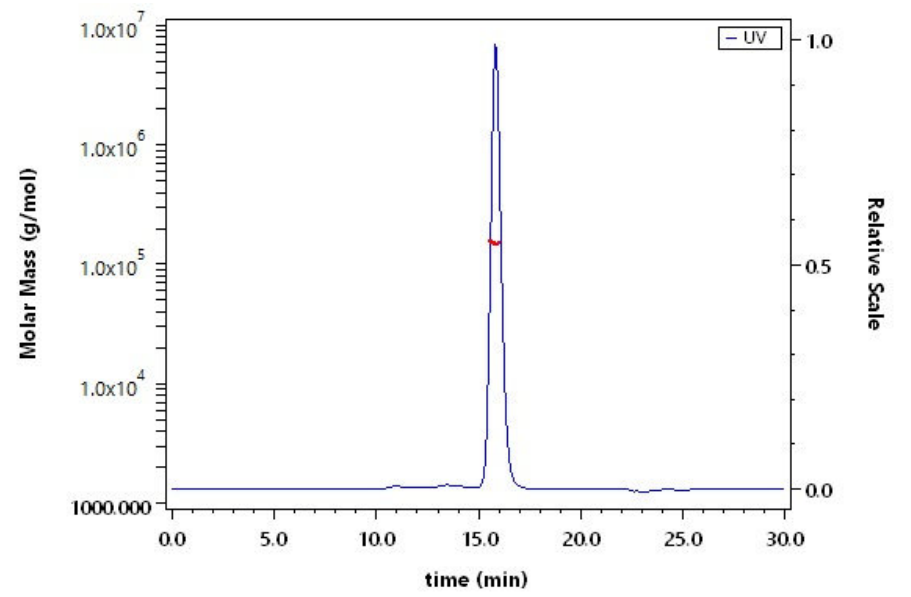
ACRO's **Premium-grade (Pre-GMP)** products are characterized by their high quality and enhanced safety profiles, making them ideal for early-stage discovery and manufacturing processes in cell therapy companies. A key advantage is their seamless transition to corresponding GMP-grade versions. Biological 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-Human CD28 Antibody, Research Grade on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

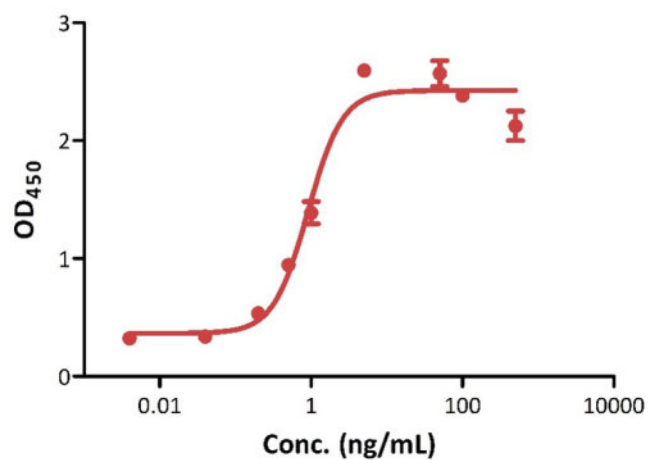
SEC-MALS



The purity of Monoclonal Anti-Human CD28 Antibody, Research Grade (Cat. No. CD8-C112GN) is more than 95% and the molecular weight of this protein is around 140-160 kDa verified by SEC-MALS.

Bioactivity-CELL BASE

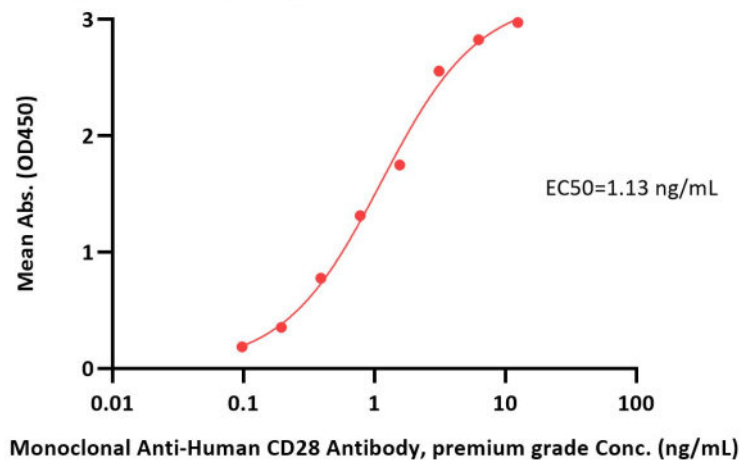
Monoclonal Anti-Human CD28 Antibody, Research Grade stimulates secretion of IL-2 by PBMC



Monoclonal Anti-Human CD28 Antibody, Research Grade (Cat. No. CD8-C112GN) stimulates secretion of IL-2 by PBMC stimulated with 4 ng/mL Monoclonal Anti-Human CD3 Antibody, Mouse IgG2a (Clone: OKT3), premium grade (Cat. No. CDE-M120a). The typical EC₅₀ for this effect is 0.8199 ng/mL (QC tested).

Bioactivity-ELISA

Monoclonal Anti-Human CD28 Antibody, premium grade ELISA
0.2 µg of Human / Cynomolgus / Rhesus macaque CD28, His Tag per well



Immobilized Human / Cynomolgus / Rhesus macaque CD28, His Tag (Cat. No. CD8-H52Hc) at 2 µg/mL (100 µL/well) can bind Monoclonal Anti-Human CD28 Antibody, premium grade (Cat. No. CD8-C112GN) with a linear range of 0.1-3 ng/mL (QC tested).

Background

T-cell-specific surface glycoprotein CD28 is also known as TP44, is a single-pass type I membrane protein which contains one Ig-like V-type (immunoglobulin-like) domain. is one of the molecules expressed on T cells that provide co-stimulatory signals, which are required for T cell activation. CD28 is the receptor for CD80 (B7.1) and CD86 (B7.2). When activated by Toll-like receptor ligands, the CD80 expression is upregulated in antigen presenting cells (APCs). The CD86 expression on antigen presenting cells is constitutive. CD28 is the only B7 receptor constitutively expressed on naive T cells.

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