



## 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 CD2 Antibody, Mouse IgG1 (RPA-2.10), Research Grade (CD2-C238GN) is a mouse monoclonal antibody recombinantly expressed from human 293 cells (HEK293).

## Isotype

Mouse IgG1 | Mouse Kappa

## Conjugate

Unconjugated

## Specificity

This RPA-2.10 monoclonal antibody specifically reacts with human CD2.

## Endotoxin

Less than 0.01 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:

- -70°C for 24 months.

## ACRO Quality Management System

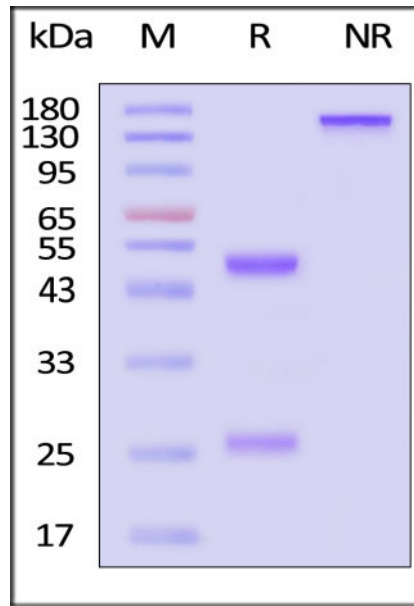
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

## 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.

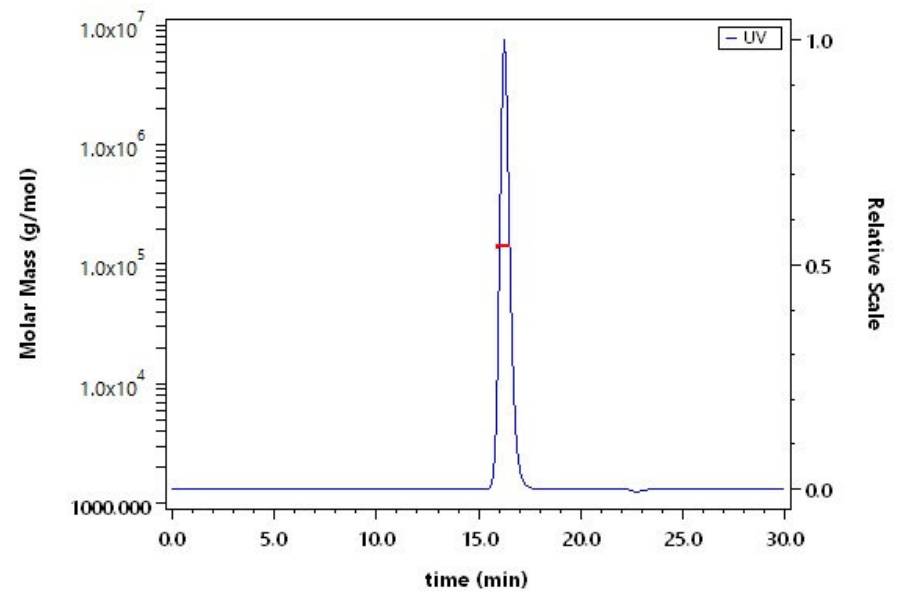
ACRO's Premium-grade (Pre-GMP) products are characterized by their high quality and enhanced safety profiles, making them ideal for early-stage discovery and manufacturing processes in cell therapy companies. A key advantage is their seamless transition to corresponding GMP-grade versions. Biological 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



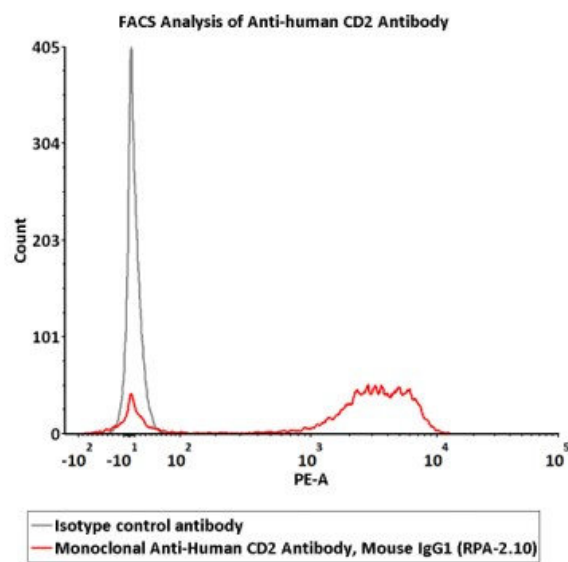
Monoclonal Anti-Human CD2 Antibody, Mouse IgG1 (RPA-2.10), Research Grade on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

## SEC-MALS



The purity of Monoclonal Anti-Human CD2 Antibody, Mouse IgG1 (RPA-2.10), Research Grade (Cat. No. CD2-C238GN) is more than 95% and the molecular weight of this protein is around 130-160 kDa verified by SEC-MALS.

## Bioactivity-FACS



Flow cytometric analysis of Human peripheral blood lymphocytes respectively staining Monoclonal Anti-Human CD2 Antibody, Mouse IgG1 (RPA-2.10), Research Grade (Cat. No. CD2-C238GN) at 1  $\mu\text{g}/\text{mL}$  (0.1  $\mu\text{g}$  corresponds to labeling of  $1\text{e}6$  cells in a final volume of 100  $\mu\text{L}$ ) and PE anti-mouse IgG1 Antibody, compared with isotype control antibody. PE signal was used to evaluate the binding activity (QC tested).

## Background

The protein encoded by this gene is a surface antigen found on all peripheral blood T-cells. The encoded protein interacts with LFA3 (CD58) on antigen presenting cells to optimize immune recognition. A locus control region (LCR) has been found in the 3' flanking sequence of this gene. [provided by RefSeq, Jun 2016]

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