



## Source

Biotinylated Anti-Human CD28 Antibody, Mouse IgG1,Avitag, premium grade is a chimeric monoclonal antibody recombinantly expressed from human 293 cells (HEK293), which combines the variable region of a mouse monoclonal antibody. The mouse monoclonal antibody is produced from a hybridoma resulting from fusion of SP2/0 myeloma and B-lymphocytes obtained from a mouse immunized with CD28.

*It is produced under our rigorous quality control system that incorporates a comprehensive set of tests including sterility and endotoxin tests. Product performance is carefully validated and tested for compatibility for cell culture use or any other applications in the early preclinical stage. When ready to transition into later clinical phases, we also offer a custom GMP protein service that tailors to your needs. We will work with you to customize and develop a GMP-grade product in accordance with your requests that also meets the requirements for raw and ancillary materials use in cell manufacturing of cell-based therapies.*

## Isotype

Mouse IgG1/kappa

## Specificity

The cross-reactivity with other species has not been tested yet.

## Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

## Endotoxin

Less than 0.002 EU per µg by the LAL method.

## Sterility

The sterility testing was performed by membrane filtration method.

## Mycoplasma

Negative.

## 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

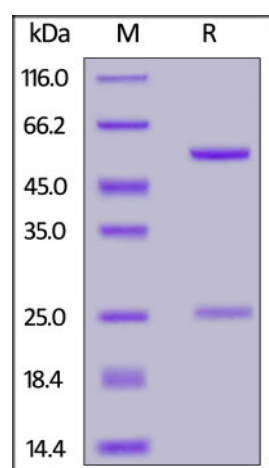
For long term storage, the product should be stored at liquid state at -70°C.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

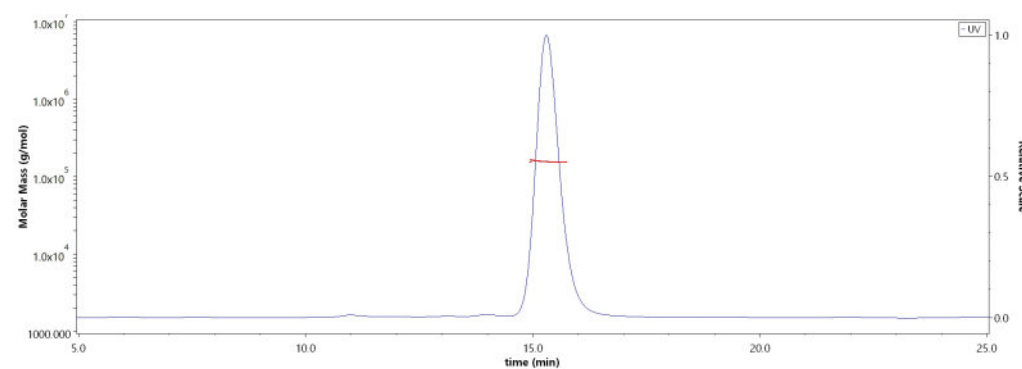
- 2-8°C for 12 months under sterile condition;
- -70°C for 24 months.

## SDS-PAGE



Biotinylated Anti-Human CD28 Antibody, Mouse IgG1,Avitag, premium grade on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## SEC-MALS



The purity of Biotinylated Anti-Human CD28 Antibody, Mouse IgG1,Avitag, premium grade (Cat. No. CD8-BM225) is more than 95% and the molecular weight of this protein is around 150-160 kDa verified by SEC-MALS.

[Report](#)

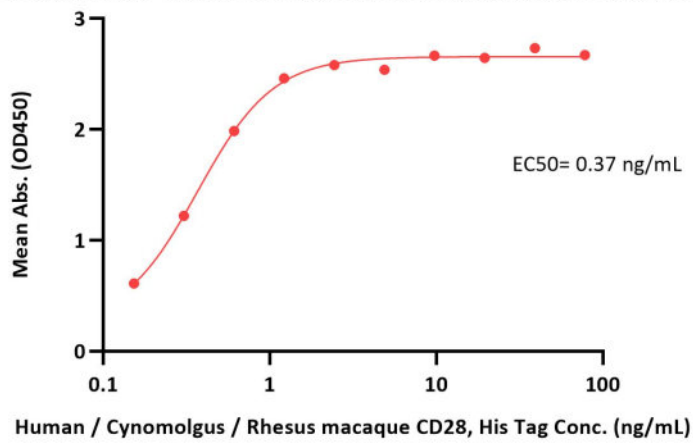
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## Bioactivity-Elisa

**Biotinylated Anti-Human CD28 Antibody, Mouse IgG1,Avitag, premium grade ELISA**  
0.1 µg of Biotinylated Anti-Human CD28 Antibody, Mouse IgG1,Avitag, premium grade per well



Immobilized Biotinylated Anti-Human CD28 Antibody, Mouse IgG1,Avitag, premium grade (Cat. No. CD8-BM225) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Human / Cynomolgus / Rhesus macaque CD28, His Tag (Cat. No. CD8-H52Hc) with a linear range of 0.2-1 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.

## Clinical and Translational Updates

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