Source

Biotinylated Anti-Human CD28 Antibody, Mouse IgG1,Avitag, premium grade (CD8-BM225) is recombinantly produced from human 293 cells (HEK293). ***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

Conjugate

Biotin

Specificity

This product is a specific antibody specifically reacts with CD28.

Endotoxin

Less than 0.002 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Sterility

Negative

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.

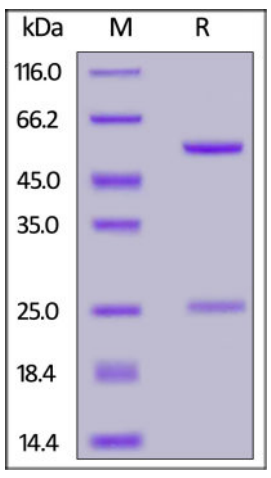
Storage

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

This product is stable after storage at:

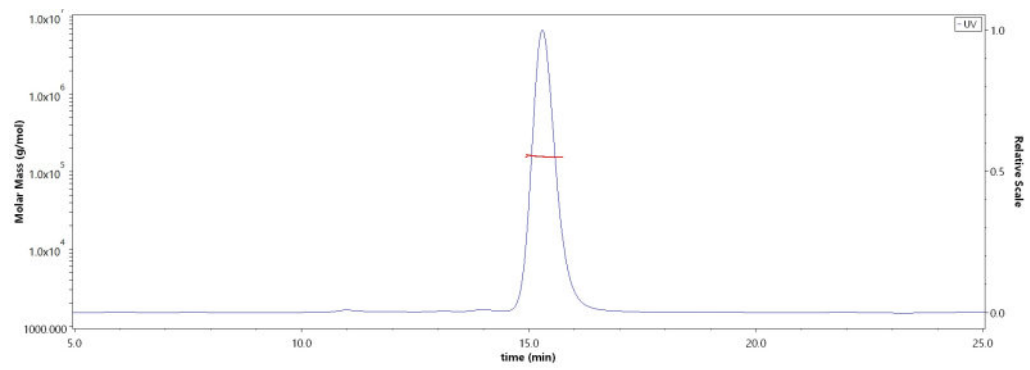
- 2-8°C for 12 months under sterile condition;
- -70°C for 24 months.

SDS-PAGE



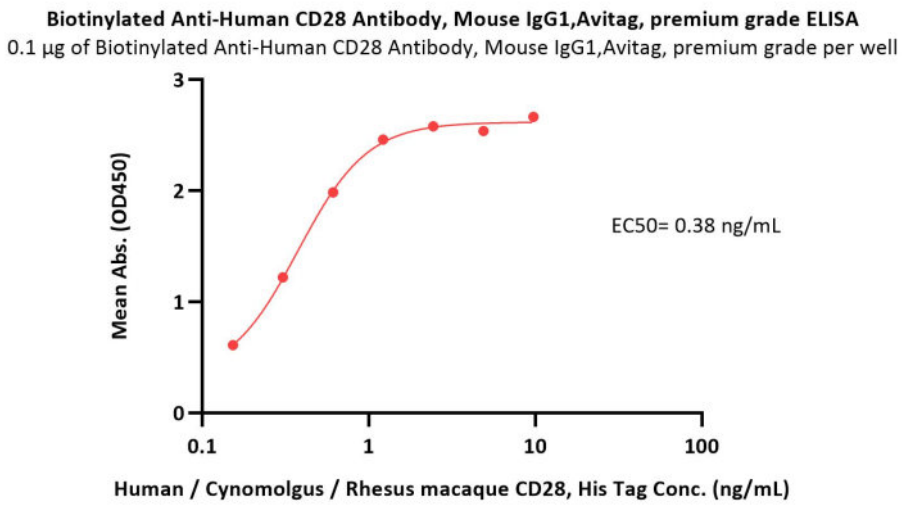
Biotinylated Anti-Human CD28 Antibody, Mouse IgG1,Avitag, premium grade on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

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

Bioactivity-Elisa



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 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