

Monoclonal Anti-Human CD28 Antibody, premium grade

Catalog # CD8-M120b



Source

Monoclonal Anti-Human CD28 Antibody, premium grade (CD8-M120b) 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.*  
*GMP-MC2824 is the GMP version of this CD8-M120b. These two proteins display indistinguishable performance profiles, thereby ensuring a seamless transition for end users from early preclinical stag to later clinical phases.*

Isotype

Mouse IgG1 | Mouse Kappa

Conjugate

Unconjugated

Specificity

This product is a specific antibody specifically reacts with CD28.

Endotoxin

Less than 0.002 EU per µg by the LAL method.

Protein A

<5 ppm of protein tested by ELISA.

Host Cell Protein

<0.5 ng/µg of protein tested by ELISA.

Host Cell DNA

<0.02 ng/µg of protein tested by qPCR.

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

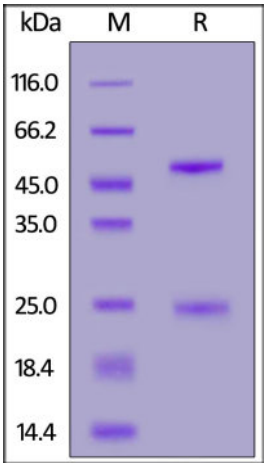
*This product is supplied and shipped with dry ice, please inquire the shipping cost.*

Storage

For long term storage, the product should be stored at liquid state at -70°C.  
This product is stable after storage at:

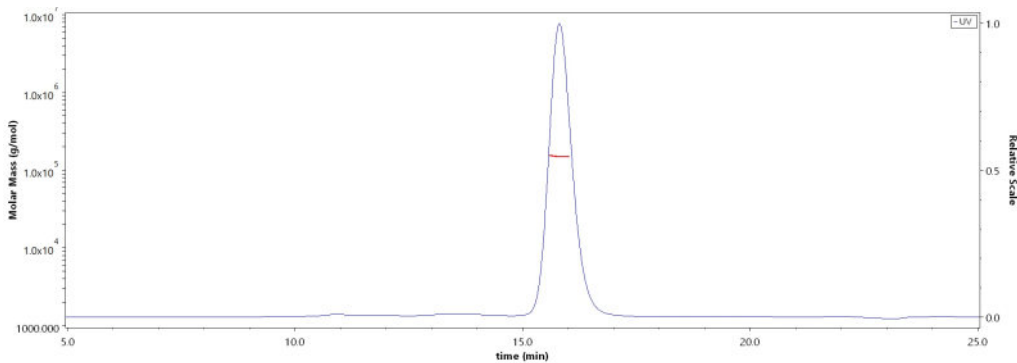
- 2-8°C for 12 months under sterile condition;
- -70°C for 24 months.

SDS-PAGE



Monoclonal Anti-Human CD28 Antibody, 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



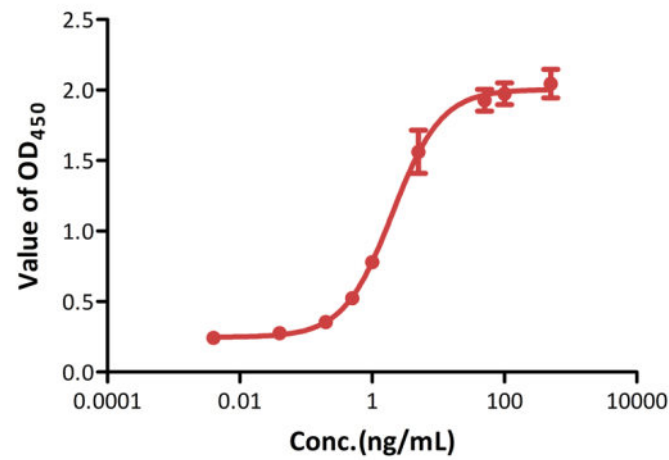
The purity of Monoclonal Anti-Human CD28 Antibody, premium grade (Cat. No. CD8-M120b) is more than 95% and the molecular weight of this protein is around 140-160 kDa verified by SEC-MALS.

[Report](#)



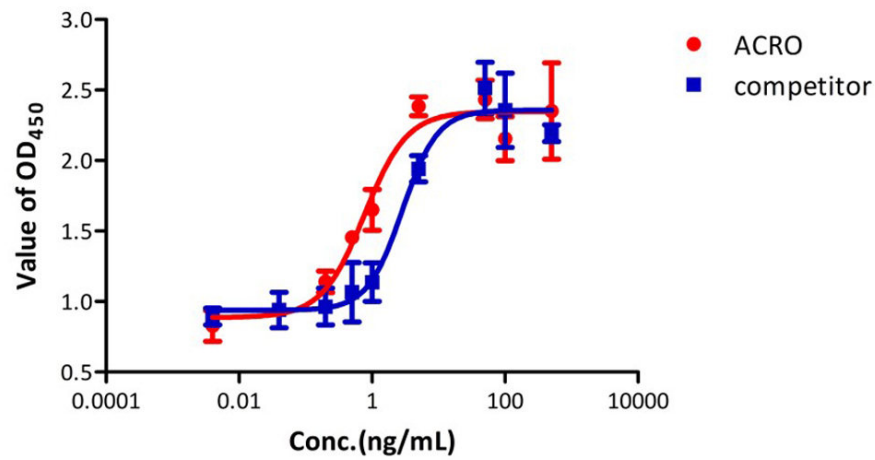
Bioactivity-CELL BASE

Monoclonal Anti-Human CD28 Antibody, premium grade stimulates secretion of IL-2 by PBMC



Monoclonal Anti-Human CD28 Antibody, premium grade (Cat. No. CD8-M120b) 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 typically EC50 for this effect is 2.03 ng/mL (QC tested).

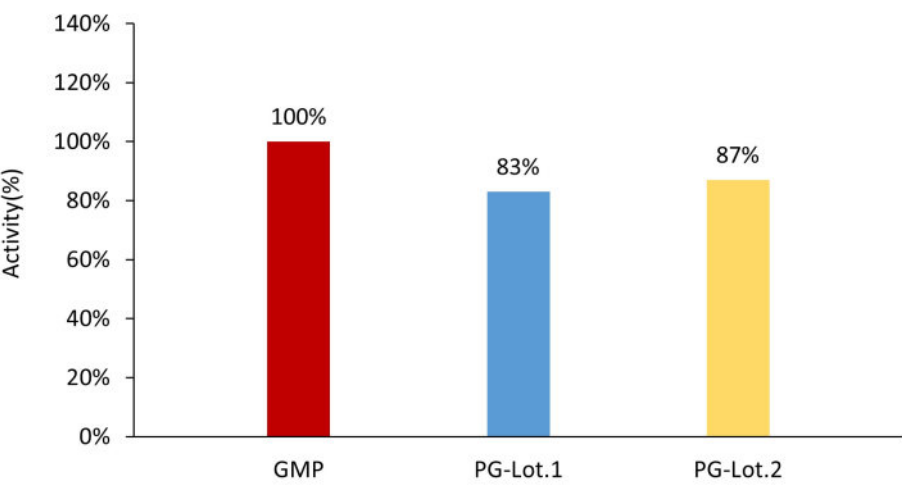
Monoclonal Anti-Human CD28 Antibody, Mouse IgG1 stimulates secretion of IL-2 by PBMC



The cell activity of Monoclonal Anti-Human CD28 Antibody, premium grade (Cat. No. CD8-M120b) is 3.7 times better than competitor.

Bioactivity-Stability

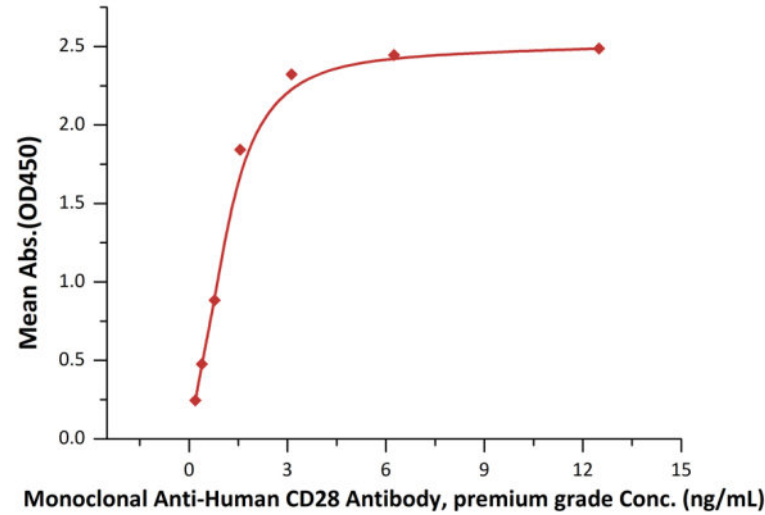
CD28 Antibody stimulates secretion of IL-2 by PBMC



The Cell based assay shows batch-to-batch consistency between Acro's GMP and PG CD28 Antibody.

Bioactivity-ELISA

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



Discounts, Gifts,  
and more!



# Monoclonal Anti-Human CD28 Antibody, premium grade

Catalog # CD8-M120b



Immobilized Human / Cynomolgus / Rhesus macaque CD28, His Tag at 2  $\mu\text{g/mL}$  (100  $\mu\text{L}$ /well) can bind Monoclonal Anti-Human CD28 Antibody, premium grade (Cat. No. CD8-M120b) with a linear range of 0.098-1.563  $\text{ng/mL}$  (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

