

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).
Monoclonal Anti-Human CD28 Antibody, premium grade (CD8-M120b), designed for preclinical stage, has the same activity and performance with GMP Monoclonal Anti-Human CD28 Antibody (GMP-MC2824), which enables a seamless transition from preclinical development to clinical phases. Premium Grade product offer a cost efficient alternative of GMP Grade products for the early development phase when safety of raw materials is not top priority. By using Premium Grade products in early development phase, you can transition easily into clinical and commercial phase without need to revalidate the raw materials and modify manufacturing process.

Isotype

Mouse IgG1/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.

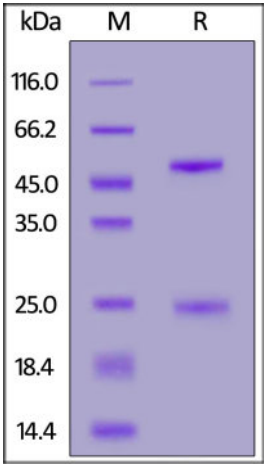
Shipping

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

Storage

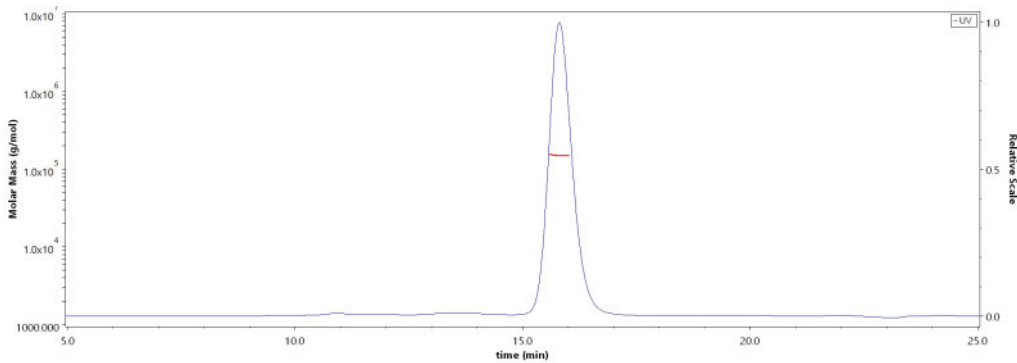
For long term storage, the product should be stored at liquid state at -70°C.
This product is stable after storage at:
• 2-8°C for 12 months under sterile condition;
• -70°C for 24 months.

SDS-PAGE



Monoclonal Anti-Human CD28 Antibody, premium grade on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The

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



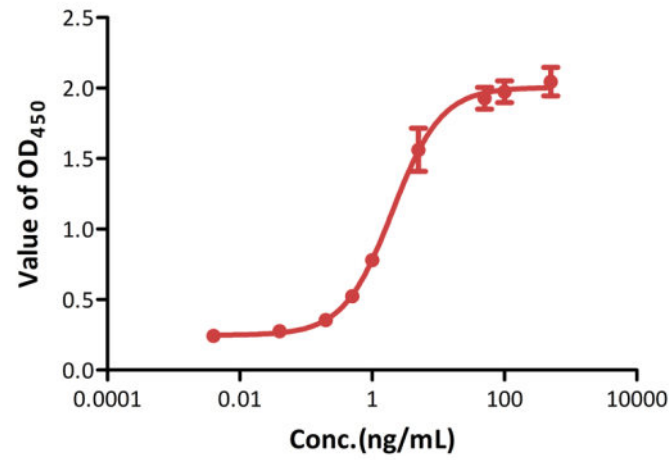
purity of the protein is greater than 95%.

around 140-160 kDa verified by SEC-MALS.

[Report](#)

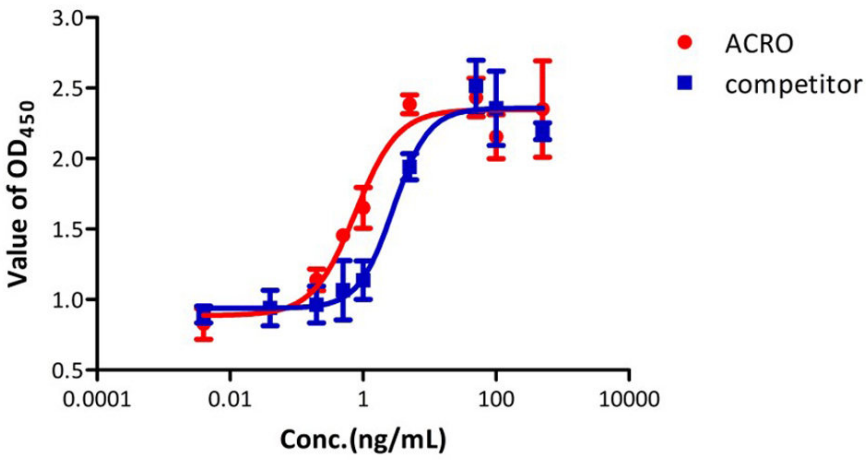
Bioactivity-Bioactivity CELL BASE

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).

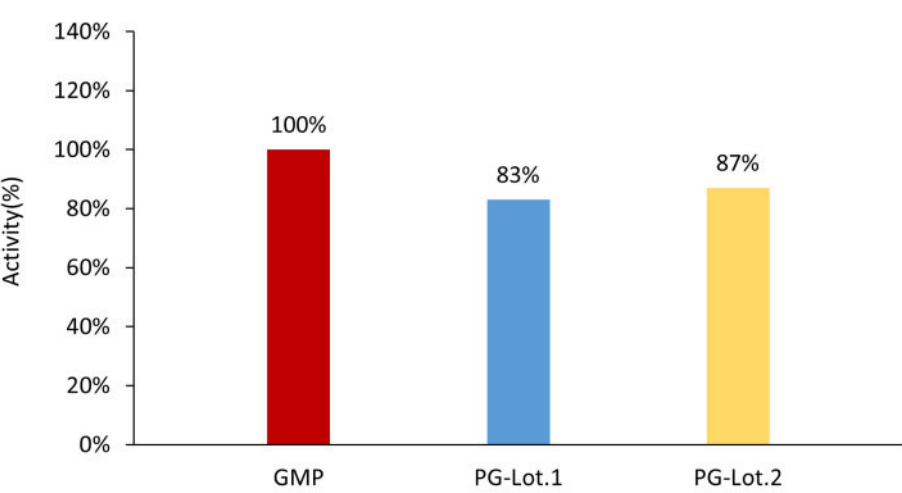
Monoclonal Anti-Human CD28 Antibody, Mouse IgG1 stimulates secretion of IL-2 by PBMC



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

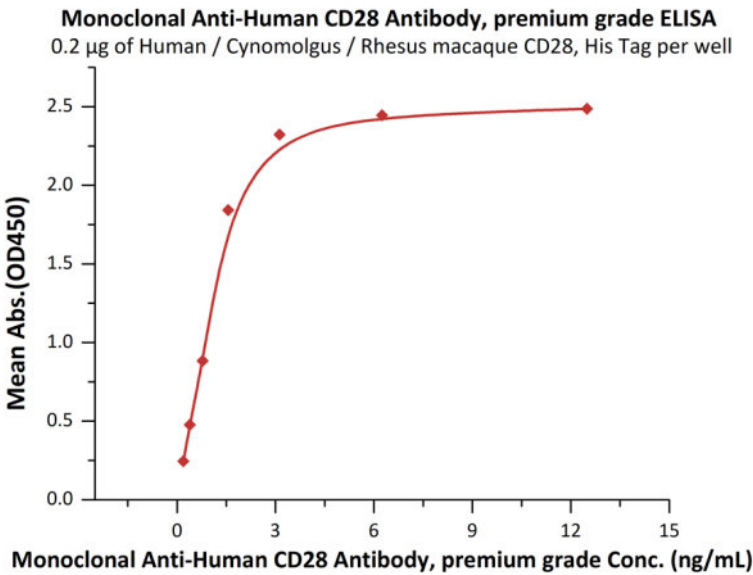


The Cell based assay shows batch-to-batch consistency between Acro's GMP and PG CD28 Antibody.

Bioactivity-ELISA

Discounts, Gifts,
and more!





Immobilized Human / Cynomolgus / Rhesus macaque CD28, His Tag at 2 µg/mL (100 µL/well) can bind Monoclonal Anti-Human CD28 Antibody, premium grade (Cat. No. CD8-M120b) with a linear range of 0.098-1.563 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

Discounts, Gifts,
and more!

