

RP00136

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Recombinant Human CD28 Protein

Catalog No.: RP00136 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	940	P10747

Tags

C-His

Synonyms

CD28;Tp44

Product Information

Source	Purification
HEK293 cells	> 97% by SDS-PAGE.

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

Contact



www.abclonal.com

Background

The protein involved in T-cell activation, the induction of cell proliferation and cytokine production and promotion of T-cell survival. Enhances the production of IL4 and IL10 in T-cells in conjunction with TCR/CD3 ligation and CD40L costimulation. Isoform 3 enhances CD40L-mediated activation of NF-kappa-B and kinases MAPK8 and PAK2 in T-cells.

Basic Information

Description

Recombinant Human CD28 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Asn19-Pro152) of human CD28/TP44 (Accession #NP_006130.1) fused with a 6xHis tag at the C-terminus.

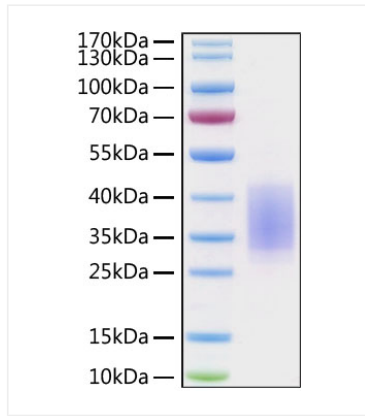
Bio-Activity

1. Measured by its binding ability in a functional ELISA. Immobilized Human CD28 Protein at 1 μg/mL (100 μL/well) can bind CD28 Rabbit mAb with a linear range of 0.06-1.04 ng/mL.

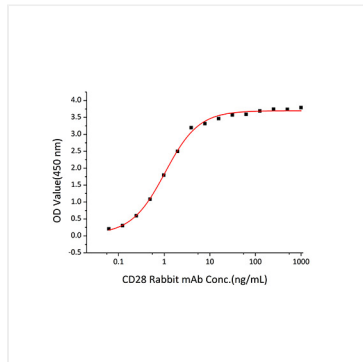
Storage

Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human CD28 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 38-50 kDa.



Immobilized Human CD28 Protein at 1 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind CD28 Rabbit mAb with a linear range of 0.06-1.04 ng/mL.