Recombinant Human/Cynomolgus/Rhesus macaque CD28 Protein

Catalog No.: RP00575

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Sequence Information

Species
Human /Cynomolgus /Rhesus-macaque

Gene ID
940

Swiss Prot
P10747-1

Tags
N-His&Avi

Synonyms
CD28 antigen (Tp44); CD28 antigen; CD28 molecule; CD28; MGC138290; T-cell-specific surface glycoprotein CD28; Tp44

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
18.2 kDa

Observed MW
36-52 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

CD28 is the receptor for CD80 (B7-1) and CD86 (B7-2) proteins.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.

Basic Information

Description
Recombinant Human/Cynomolgus/Rhesus macaque CD28 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asn19-Pro152) of Human/Cynomolgus/Rhesus-macaque CD28 (Accession #P10747-1) fused with a N-His&Avi tag at the N-terminus.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

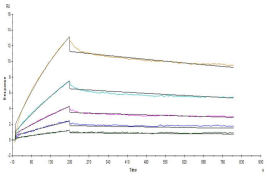
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

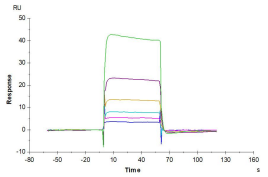
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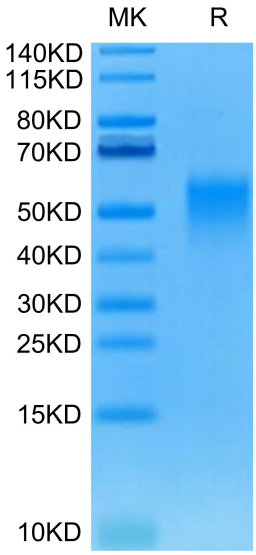
Validation Data



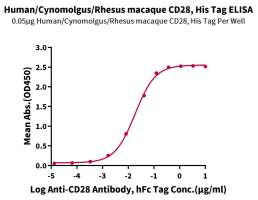
Anti-CD28 antibody captured on Protein A chip, can bind Human/Cynomolgus /Rhesus macaque CD28, His Tag with an affinity constant of 5.15nM as determined in a SPR assay (Biacore T200).



Human B7-1, hFc Tag captured on CM5 Chip via Protein A can bind Human /Cynomolgus/Rhesus macaque CD28, His-Avi Tag with an affinity constant of 43.61 μM as determined in SPR assay (Biacore T200).



Recombinant Human/Cynomolgus/Rhesus macaque CD28 Protein was determined by Tris-Bis PAGE under reducing conditions.



Immobilized Human/Cynomolgus/Rhesus macaque CD28, His Tag at 0.5 μg/mL (100 μL/Well) on the plate. Dose response curve for Anti-CD28 Antibody, hFc Tag with the EC_{50} of 18.4ng/mL determined by ELISA (QC Test).