

RP00601

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Recombinant Human CD28/TP44 Protein

Catalog No.: RP00601

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	940	P10747

Tags

C-Fc

Synonyms

CD28;Tp44

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Endotoxin

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

Formulation

Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4. Contact us for customized product form or formulation.

Reconstitution

Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

Background

T-cell-specific surface glycoprotein CD28(CD28) is a single-pass type I membrane protein which contains one Ig-like V-type (immunoglobulin-like) domain. It belongs to the immunoglobulin(Ig) superfamily. CD28 is one of the molecules expressed on T cells that provide co-stimulatory signals, which are required for T cell activation. CD28 co-stimulation is necessary for CD4 positive T-cell proliferation and survival, interleukin-2 production, and T-helper type-2 development. Human post-thymic regulatory T cells require CD28 co-stimulation to expand and maintain potent suppressive function in vivo. Apoptosis plays a key role in the age-related decline of CD28 expression and in immunosenescence. 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.

Basic Information

Description

Recombinant Human CD28/TP44 Protein is produced by Human cells expression system. The target protein is expressed with sequence (Asn19-Pro152) of human CD28/TP44 (Accession #P10747) fused with an Fc tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. When Recombinant Human CD28/TP44 Fc Chimera is coated at 1 μg/mL (100 μL/well), the concentration of Recombinant Human B7-1/CD80 that produces 50% of the optimal binding response is approximately 0.05-0.3 μg/mL.

Storage

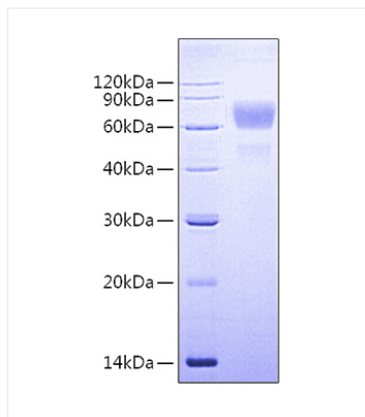
Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact



www.abclonal.com

Validation Data



Recombinant Human CD28/TP44 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.