

Datasheet for ABIN7319757
CD28 Protein (CD28) (His tag)[Go to Product page](#)

2 Images

Overview

Quantity:	50 µg
Target:	CD28
Origin:	Human, Cynomolgus
Source:	Human Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD28 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human/Cynomolgus CD28/TP44 (N-His)
Sequence:	Asn19-Pro152
Characteristics:	Recombinant Human T-cell-specific Surface Glycoprotein CD28 is produced by our Mammalian expression system and the target gene encoding Asn19-Pro152 is expressed with a 6His tag at the N-terminus.
Purity:	>95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1 IEU/µg as determined by LAL test.
Biological Activity Comment:	Immobilized Human/Cynomolgus CD28-His(Cat#C406) at 2µg/ml (100 µl/well) can bind Anti-CD28 mAb(Cat#A063). The ED50 of Anti-CD28 mAb(Cat#A063) is 15.3 ng/ml.

Target Details

Target:	CD28
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Target Details

Alternative Name: / CD28/TP44 ([CD28 Products](#))

Background: Background: T-cell-specific surface glycoprotein CD28(CD28) is a single-pass typeI membrane protein which contains one Ig-likeV-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. Synonym: CD28, CD28 antigen, CD28 Molecule, T-cell-specific surface glycoprotein CD28, Tp44, TP44

Molecular Weight: 16.7 kDa

UniProt: [P10747](#)

Pathways: [TCR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#)

Application Details

Restrictions: For Research Use only

Handling

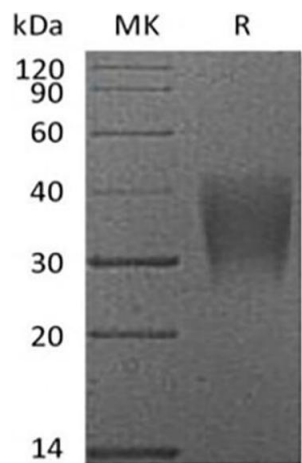
Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.

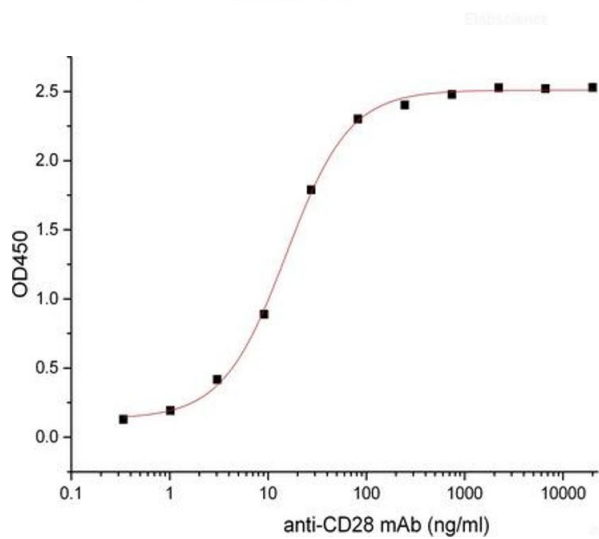
Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.



ELISA

Image 2.