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Datasheet for ABIN7319852
CD28 Protein (CD28) (Biotin)

2 Images

Overview

Quantity:	100 µg
Target:	CD28
Origin:	Human, Cynomolgus
Source:	Human Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD28 protein is labelled with Biotin.

Product Details

Purpose:	Recombinant Human/Cynomolysus CD28/TP44 (C-Fc-Avi) Biotinylated
Sequence:	Asn19-Pro152
Characteristics:	Biotinylated 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 Fc, Avi tag at the C-terminus.
Purity:	>95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Immobilized Anti-CD28 mAb(Cat#A063) at 2µg/ml (100 µl/well) can bind Human/Cynomolgus CD28-Fc-Avi(Cat#CY34). The ED50 of Human/Cynomolgus CD28-Fc-Avi(Cat#CY34) is 0.84 ng/ml.

Target Details

Target:	CD28
Alternative Name:	CD28 (CD28 Products)
Background:	<p>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.</p> <p>Synonym: CD28, CD28 antigen, CD28 Molecule, T-cell-specific surface glycoprotein CD28, Tp44, TP44</p>
Molecular Weight:	44.1 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

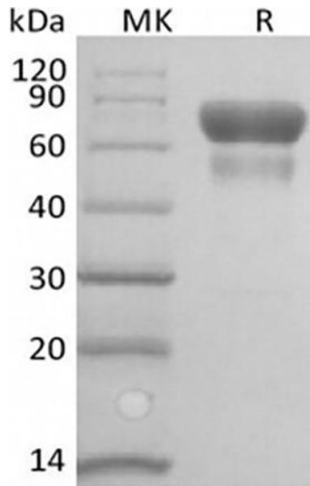
Application Details

Comment:	60-90 kDa
Restrictions:	For Research Use only

Handling

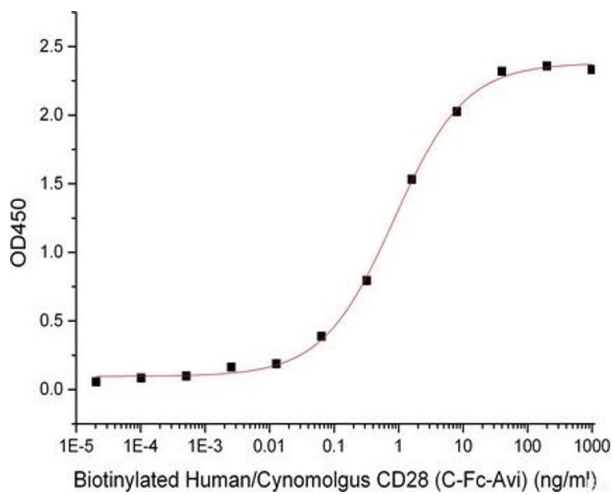
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20mTris-HCl, 150 mM NaCl, pH 8.0.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored 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.