Datasheet for ABIN6253669

CD28 Protein (CD28) (AA 19-152) (Fc Tag)

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Overview

Quantity:	100 µg
Target:	CD28
Protein Characteristics:	AA 19-152
Origin:	Human, Cynomolgus, Rhesus Monkey
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD28 protein is labelled with Fc Tag.

Product Details

Sequence:	AA 19-152
Characteristics:	This protein carries a mouse IgG2a Fc tag at the C-terminus. The protein has a calculated MW of 42.0 kDa. The protein migrates as 50-66 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 0.1 EU per µg by the LAL method.

Target Details

Target:	CD28
Alternative Name:	CD28 (CD28 Products)

Target Details

Background:	T-cell-specific surface glycoprotein CD28 is also known as TP44, is a single-pass type I membrane protein which contains one Ig-like V-type (immunoglobulin-like) domain. is one of the molecules expressed on T cells that provide co-stimulatory signals, which are required for T cell activation. 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.
Molecular Weight:	42.0 kDa
NCBI Accession:	NP_006130
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

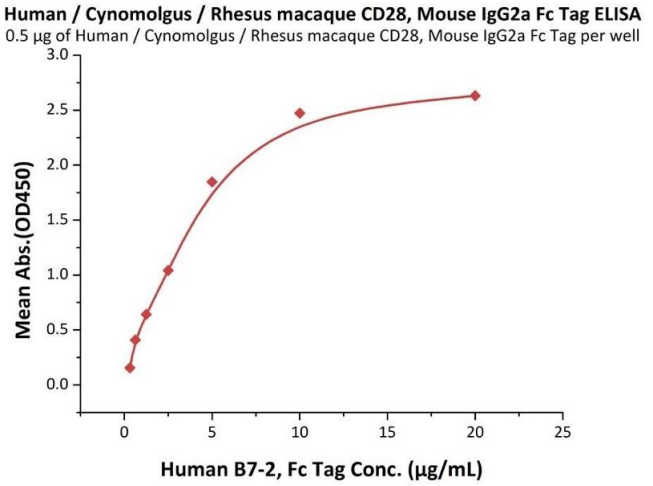
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	50 mM Tris, 100 mM Glycine, pH 7.5
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C

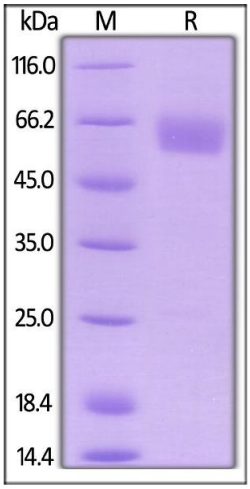
Publications

Product cited in:	Mukundan, Guan, Singleton, Yang, Li, Parekkadan: "Artificial T Cell Mimetics to Combat Melanoma Tumor Growth." in: **American journal of advanced drug delivery**, Vol. 6, Issue 1, pp. 21-32, (2018) (PubMed).



ELISA

Image 1. Immobilized Human / Cynomolgus / Rhesus macaque CD28, Mouse IgG2a Fc Tag, low endotoxin (ABIN5674618,ABIN6253669) at 5 μg/mL (100 μL/well) can bind Human B7-2, Fc Tag (ABIN2180621,ABIN2180620) with a linear range of 0.313-5 μg/mL (QC tested).



SDS-PAGE

Image 2. Human / Cynomolgus / Rhesus macaque CD28, Mouse IgG2a Fc Tag, low endotoxin on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .

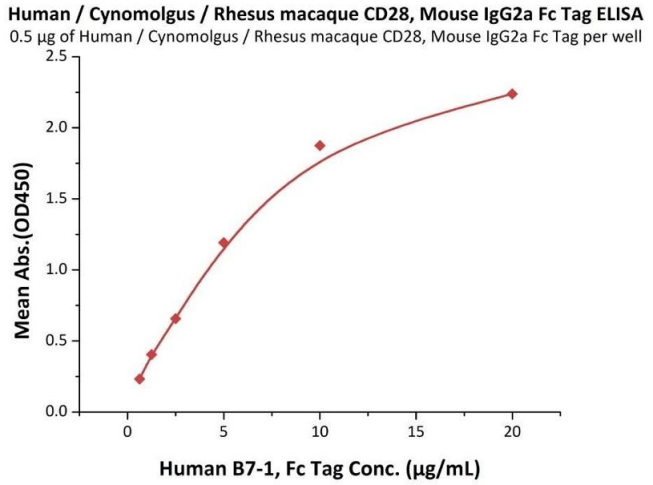


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Image 3. Immobilized Human / Cynomolgus / Rhesus macaque CD28, Mouse IgG2a Fc Tag, low endotoxin (ABIN5674618,ABIN6253669) at 5 μg/mL (100 μL/well) can bind Human B7-1, Fc Tag (ABIN2180846,ABIN2180845) with a linear range of 0.625-10 μg/mL (Routinely tested).