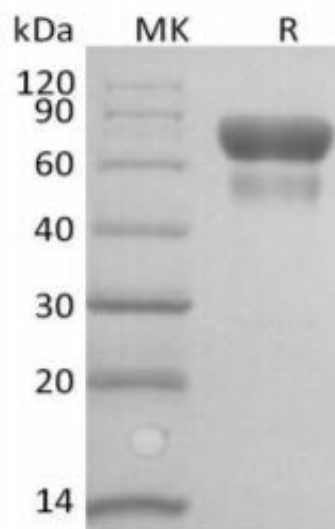


Recombinant Human CD28 protein, C-Fc-Avi Tag, Biotinylated

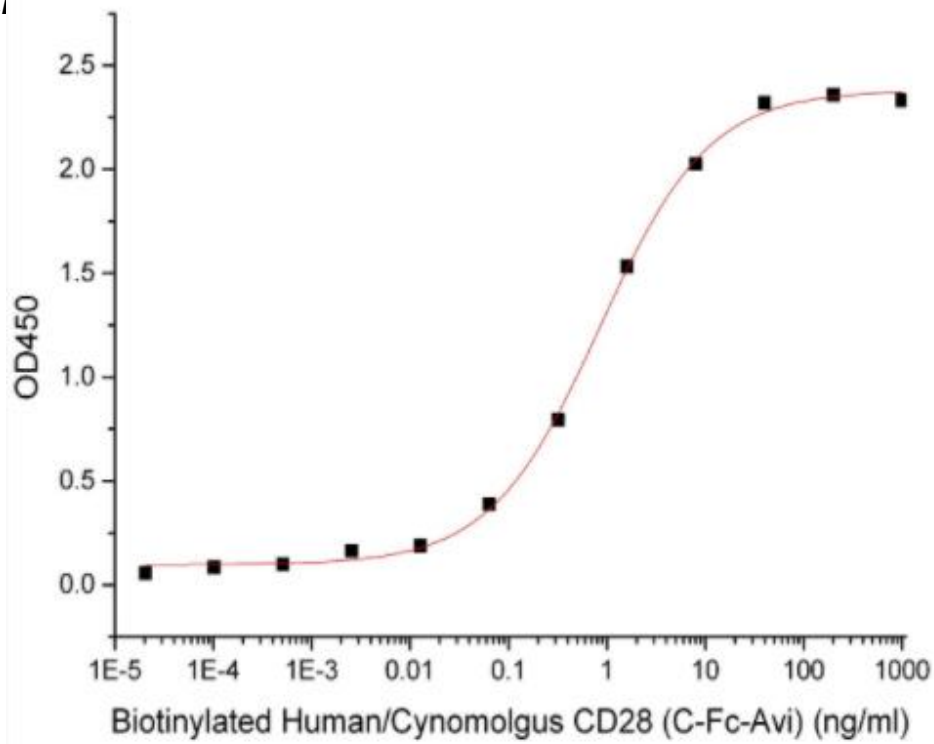
Product Information

Cat	IMP-557
Official Symbol	CD28
Product Overview	<i>Biotinylated Recombinant Human CD28(NP_001230006.1)(Asn19-Pro152) is expressed in HEK293, fused with a Fc, Avi tag at the C-terminus.</i>
Description	<i>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.</i>
Expression System	HEK293
Species	Human
Tag	C-Fc-Avi Tag
Form	<i>Lyophilized from a 0.2 µm filtered solution of 20mTris-HCl, 150mM NaCl, pH 8.0.</i>
Molecular Mass	<i>60-90kDa, reducing conditions.</i>
Protein length	Asn19-Pro152
Endotoxin	<i>Less than 0.1 ng/µg (1 EU/µg) as determined by LAL test.</i>
Purity	<i>Greater than 95% as determined by reducing SDS-PAGE.</i>
Storage	<i>Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.</i>
Reconstitution	<i>Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</i>

SDS-PAGE



Bioactivity-ELISA



Immobilized Anti-CD28 mAb at 2 μ g/ml (100 μ l/well) can bind Human/Cynomolgus CD28-Fc-Avi.

The ED50 of Human/Cynomolgus CD28-Fc-Avi is 0.84 ng/ml.