

Active Recombinant Human/Cynomolgus/Rhesus macaque CD28 Protein, Mouse IgG2a Fc Tagged

Cat. No. CD28-11213H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human/Cynomolgus/Rhesus macaque CD28, Mouse IgG2a Fc Tag is expressed from human 293 cells (HEK293). It contains AA Asn 19-Pro 152 (Accession # P10747-1). In the region Asn 19-Pro 152, the AA sequence of Human, Cynomolgus and Rhesus macaque CD28 are homologous. This protein carries a mouse IgG2a Fc tag at the C-terminus. Predicted N-terminus: Asn 19.
Species	Human/Cynomolgus/Rhesus macaque
Source	HEK293
ProteinLength	19-152 aa
Description	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.
Form	Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5 with trehalose as protectant.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Bio-activity	Immobilized Human/Cynomolgus/Rhesus macaque CD28, Mouse IgG2a Fc Tag at 5 µg/mL (100 µL/well) can bind Human B7-2, Fc Tag with a linear range of 0.1-5 µg/mL.
Molecular Mass	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.
Endotoxin	Less than 0.1 EU/µg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE. >95% as determined by SEC-MALS.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	CD28 CD28 molecule [Homo sapiens (human)]
Official Symbol	CD28
Synonyms	CD28; CD28 molecule; CD28 antigen (Tp44); T-cell-specific surface glycoprotein CD28; T cell specific surface glycoprotein; CD28 antigen; Tp44; MGC138290;
Gene ID	940

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mRNA Refseq	NM_001243077
Protein Refseq	NP_001230006
MIM	186760
UniProt ID	P10747

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