

Product datasheet for **TP727992**

CD28 Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human CD28/TP44 (C-Fc)
Species:	Human
Expression cDNA Clone or AA Sequence:	Asn19-Pro152
Tag:	C-Fc
Buffer:	Lyophilized from a 0.2 um filtered solution of 20mMTris-HCl,150mMNaCl,pH 8.0.
Note:	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 tag at the C-terminus.
Stability:	12 months from date of despatch
Locus ID:	940
UniProt ID:	P10747
Summary:	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.



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