# Recombinant Protein Technical Manual

## Recombinant Mouse CD28/TP44 Protein (His & Fc Tag)(Active)

**RPES4757**

## Product Data:

**Product SKU:** RPES4757

**Size:** 100µg

**Species**: Mouse

**Expression host:** HEK293 Cells

**Uniprot:** NP_031668.3

## Protein Information:

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|---|---|
| **Molecular Mass:** | 43 kDa |
| **AP Molecular Mass:** | 55-60 kDa |
| **Tag:** | C-His-Fc |
| **Bio-activity:** | Measured by its binding ability in a functional ELISA.1. Immobilized mouse CD86 at 20 µg/ml (100 µl/well) can bind mouse CD28 Fc Chimera with a linear ranger of 6.4-800 ng/ml.2. Immobilized rat CD86 at 2 µg/ml (100 µl/well) can bind mouse CD28 Fc Chimera |
| **Purity:** | > 96 % as determined by SDS-PAGE |
| **Endotoxin:** | < 1.0 EU per µg of the protein as determined by the LAL method. |
| **Storage:** | 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℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months. |
| **Shipping:** | This product is provided as lyophilized powder which is shipped with ice packs. |
| **Formulation:** | Lyophilized from sterile PBS, pH 7.4 |
| **Reconstitution:** | Please refer to the printed manual for detailed information. |
| **Application:** | Functional ELISA |
| **Synonyms:** | T-cell-specific surface glycoprotein CD28;CD28;CH2989K17.3 |

## Immunogen Information:

**Sequence:** Met 1-Lys 149

## Background:

CD28(Cluster of Differentiation 28) is a disulphide-bonded glycoprotein belonging to the immunoglobulin (Ig) superfamily, and structurally consists of a single Ig V-like extracellular domain, a transmembrane domain and an intracellular domain. Mouse CD28 is constitutively expressed on the surface of all murine T cells and on developing thymocytes as disulfide-linked homodimers or as monomers. CD28 can binds the B7 and B7-2 ligand, and together perform important functions in the T and B cell response pathways. B7/CD28 family members, which can augment or antagonize T-cell receptor signaling, in the regulation of central and peripheral T-cell tolerance. CD28 is thus involved in T-cell activation, the induction of cell proliferation and cytokine production and promotion of T-cell survival.