



Recombinant Protein Technical Manual

Recombinant Mouse CD27/TNFRSF7 Protein (His & Fc Tag)(Active)
RPES4671

Product Data:

Product SKU: RPES4671

Size: 50µg

Species: Mouse

Expression host: HEK293 Cells

Uniprot: NP_001028298.1

Protein Information:

Molecular Mass: 46.2 kDa

AP Molecular Mass: 60-65 kDa

Tag: C-His-Fc

Bio-activity: Measured by its binding ability in a functional ELISA. Immobilized recombinant mouse CD27 at 2 µg/ml (100 µl/well) can bind biotinylated human CD70 with a linear range of 0.392.5 ng/ml.

Purity: > 94 % 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°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C 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: CD27 antigen; CD27L receptor; T-cell activation antigen CD27; Tumor necrosis factor receptor superfamily member 7;S152;Tnfrsf7;Tp55

Immunogen Information:

Sequence: Met 1-Arg 182

Background:

CD27, also known as TNFRSF7, is a member of the TNF-receptor superfamily limited to cells of the lymphoid lineage, and exists as both a dimeric glycoprotein on the cell surface and as a soluble protein in serum. As a type I transmembrane glycoprotein of about 55 kDa existing as disulfide-linked homodimer, CD27 has been shown to play roles in lymphoid proliferation, differentiation, and apoptosis. It has important role in generation of T cell immunity, and is an apparently robust marker for normal memory B cells. It is a T and B cell co-stimulatory molecule, the activity of CD27 is governed by its TNF-like ligand CD70 on lymphocytes and dendritic cells. The CD27-CD70 interaction is required for Th1 generation responses to differentiation signals and long-term maintenance of T cell immunity, and meanwhile, plays a key role in regulating B-cell differentiation, activation and immunoglobulin synthesis.