



Recombinant Protein Technical Manual
Recombinant Human CD27/TNFRSF7 Protein (His & Fc Tag)(Active)
RPES0643

Product Data:

Product SKU: RPES0643

Size: 100µg

Species: Human

Expression host: HEK293 Cells

Uniprot: NP_001233.1

Protein Information:

Molecular Mass: 47.2 kDa

AP Molecular Mass: 65 kDa

Tag: C-His & C-Fc

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

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg 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: S152;S152. LPFS2;S152. LPFS2;T14;TNFRSF7;Tp55

Immunogen Information:

Sequence: Met 1-Ile 192

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.