

Recombinant Protein Technical Manual Recombinant Rabbit B7/CD80 Protein (His Tag)

RPES3662

Product Data:

Product SKU: RPES3662 **Size:** 10μg

Species: Rabbit Expression host: Human Cells

Uniprot: P42070

Protein Information:

Molecular Mass: 24.5 kDa

AP Molecular Mass: 30-50 kDa

Tag: C-His

Bio-activity:

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

Endotoxin: $< 1.0 \text{ EU per } \mu\text{g}$ as determined by the LAL method.

Storage: Lyophilized protein should be stored at < -20°C, though stable at room

temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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 a 0.2 μm filtered solution of PBS, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: T-lymphocyte activation antigen CD80; Activation B7 antigen; B7; CD80

Immunogen Information:

Sequence: Gly33-Gln241

Background

Cluster of Differentiation 80, also called B7, is a member of cell surface immunoglobulin superfamily which plays key, yet distinct roles in the activation of T cells. B7/CD80 and B7-2/CD86, together with their receptors CD28 and CTLA4, constitute one of the dominant co-stimulatory pathways that regulate T- and B- cell responses. CD80 is mostly expressed on the surface of antigen-presenting cells including activated B cells, macrophages and dendritic cells. Although both CTLA-4 and CD28 can bind to the same ligands, CTLA-4 binds to B7 and B7-2 with a 2000 fold higher affinity than CD28 and is involved in the down-regulation of the immune response.