

Recombinant Protein Technical Manual Recombinant Mouse CD80/B7 Protein (His Tag) RPES0125

Product Data:

Product SKU: RPES0125

Species: Mouse

Size: 10µg Expression host: Human Cells

Uniprot: Q00609

Drotoin	Information:
Protein	

Molecular Mass:	24.6 kDa
AP Molecular Mass:	38-55 kDa
Tag:	C-6His
Bio-activity:	
Purity:	> 95 % as determined by 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 a 0.2 μ m filtered solution of PBS, pH7.4.
Reconstitution:	Please refer to it for detailed information.
Application:	
Synonyms:	T-lymphocyte activation antigen CD80; Activation B7 antigen; B7; CD80;Cd28l;Ly- 53;Ly53;MIC17;TSA1

Sequence: Val38-Asn246

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. Mouse CD80 consists of an extracellular domain (ECD) with twoimmunoglobulin-like domains, transmembrane segment, and cytoplasmic domain. 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.