



Recombinant Protein Technical Manual

Recombinant Human CD300a/LMIR1 Protein (His Tag)

RPES3464

Product Data:

Product SKU: RPES3464

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q9UGN4

Protein Information:

Molecular Mass: 18.5 kDa

AP Molecular Mass: 33 kDa

Tag: C-6His

Bio-activity:

Purity: > 90 % 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 a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.

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

Application:

Synonyms: CMRF35-Like Molecule 8; CLM-8; CD300 Antigen-Like Family Member A; CMRF-35-H9; CMRF35-H9; CMRF35-H; IRC1/IRC2; Immunoglobulin Superfamily Member 12; IgSF12; Inhibitory Receptor Protein 60; IRp60; NK Inhibitory Receptor; CD300a; CD300A; CMRF35H; IGSF12

Immunogen Information:

Sequence: Leu18-Gln178

Background:

CD300A is a single-pass type I membrane protein that belongs to the CD300 family. CD300A consists of a 163 amino acid (aa) extracellular domain (ECD) with one Ig-like V- type domain, a 21 amino acid transmembrane segment, and a 98 amino acid cytoplasmic domain with tyrosine residues. CD300A is expressed not only by natural killer (NK) cells but also by T-cell subsets, B-cells, dendritic cells, mast cells, granulocytes and monocytes. CD300A is an inhibitory receptor which may contribute to the down-regulation of cytolytic activity in natural killer (NK) cells, and to the down-regulation of mast cell degranulation.