



Recombinant Protein Technical Manual

Recombinant Mouse CD300a/LMIR1 Protein (Fc Tag)

RPES2106

Product Data:

Product SKU: RPES2106

Size: 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: Q6SJQ0

Protein Information:

Molecular Mass: 44.3 kDa

AP Molecular Mass: 58-75 kDa

Tag: C-Fc

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 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.

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

Application:

Synonyms: CD300a;CD300a antigen;CMRF35H9; CD300a molecule; leukocyte immunoglobulin-like receptor;CD300 antigen-like family member A; CMRF35-like molecule 8;NK inhibitory receptor; Immunoglobulin superfamily member 12; IRp60;Inhibitory receptor protein 60; CLM8; CMRF-35H; IGSF12; IRC1; IRC2; LMIR1;CLM-8;MAIR-I;Clm8;MAIR-I;MAIR-Ia;mcpir1;MMAC8;Pigr4

Immunogen Information:

Sequence: Leu28-Arg183

Background:

LMIR1, also termed CD300a, is a type I transmembrane glycoprotein with a single IgV-like extracellular domain and an extended membrane proximal region that links the immunoglobulin (Ig) and transmembrane domains and belongs to the immunoglobulin superfamily. The intracellular domain of LMIR1 contains several immunoreceptor tyrosine-based inhibition motifs (ITIMs). When cross-linked, it will be tyrosine phosphorylated and capable of recruiting tyrosine phosphatases (SHP, SHP-2) and inositol polyphosphate 5-phosphatase, SHIP. LMIR1 will regulate mast cell-mediated inflammatory responses. LMIR1 is broadly expressed on myeloid and lymphoid cells, and its expression is differentially regulated depending on the cell type.