

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CD300f/LMIR3 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant mouse (rm) LMIR4, rmCD300b/LMIR5, recombinant human (rh) CD300a/LMIR1, rhCD300c/LMIR2, rhCD300f/LMIR3, or rhCD300e/LMIR6 is observed.
Source	Monoclonal Rat IgG ₁ Clone # 305835
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse CD300f/LMIR3 Cys16-Gly188 Accession # Q6SJQ7
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	Recombinant Mouse CD300f/LMIR3
Flow Cytometry	0.25 µg/10 ⁶ cells	RAW 264.7 mouse monocyte/macrophage cell line
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Mouse LMIR3, also known as CLM-1, IgSF13, IREM-1 and CMRF35-like molecule 1, and designated CD300f, is a 55 kDa type I transmembrane (TM) glycoprotein. It is synthesized as a 283 amino acid (aa) precursor that contains a putative 19 aa signal sequence, a 175 aa extracellular region that contains one Ig-like domain, a 17 aa TM segment and a 72 aa cytoplasmic domain that contains an ITIM sequence. There are multiple alleles for this gene that vary considerably in size. Mouse LMIR3 is expressed in monocytic cell lines. Mature mouse LMIR3 extracellular region shares 43% and 72% aa identity with human and rat LMIR3 extracellular region, respectively.