Human CD300b/LMIR5 Antibody

Antigen Affinity-purified Polyclonal Goat IgG

Catalog Number: AF2879

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CD300b/LMIR5 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 25% cross-reactivity with recombinant human (rh) LMIR3 is observed and less than 5% cross-reactivity with rhLMIR1, -2, -6 and recombinant mouse LMIR4 and -5 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CD300b/LMIR5 Ile55-His187 Accession # NP_777552
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 as a 0.2 μm filtered solution in PBS.

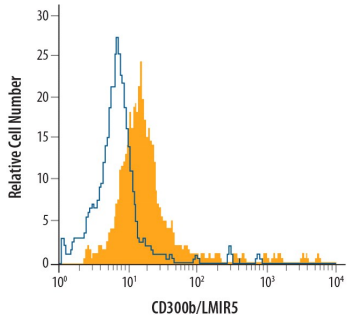
APPLICATIONS

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	0.1 µg/mL	Recombinant Human CD300b/LMIR5
Flow Cytometry	2.5 µg/10^6 cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

Flow Cytometry



Detection of CD300b/LMIR5 in Human Monocytes by Flow Cytometry. Human whole blood monocytes were stained with Goat Anti-Human CD300b/LMIR5 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2879, filled histogram) or control antibody (Catalog # AB-108-C, open histogram), followed by Phycoerythrin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0107).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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.** ● 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

CD300b, also known as LMIR5, CLM7 (CMRF-35-like Molecule 7) and TREM5 (Triggering Receptor Expressed on Myeloid cells 5) belongs to a multigene family whose members are closely mapped to a region of human chromosome 17 and mouse chromosome 11. These genes encode type I membrane proteins with a single extracellular Ig-like domain and the proteins are expressed widely in leukocytes. LMIR/CD300 family proteins are immunoregulatory signaling molecules that either have cytoplasmic ITIM motifs or can interact with ITAM motif-bearing molecules through a characteristic transmembrane domain containing positively charged amino acid residues. CD300b/LMIR5 is an ITAM adaptor-associated receptor with a short cytoplasmic region. Human and mouse CD300b/LMIR5 share approximately 45% amino acid sequence identity.

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