

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CD300c in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 5% cross-reactivity with recombinant human (rh) LMIR1 is observed and less than 1% cross-reactivity with rhLMIR3, rhLMIR4, rhLMIR5, and rh
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CD300c Met29-Arg183 Accession # Q08708
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Leukocyte mono-Ig-like receptor 2 (LMIR2; also CMRF-35, CMRF35-A antigen, and CD300c antigen) is a 23 kDa (predicted) type I transmembrane glycoprotein that belongs to the immunoregulatory signaling (IRS) family of molecules within the immunoglobulin (Ig) superfamily (1-4). Human LMIR2 is synthesized as a 224 amino acid (aa) precursor that has a 20 aa signal sequence, a 163 aa extracellular domain (ECD), a 21 aa transmembrane region, and a 20 aa cytoplasmic tail. The ECD contains an Ig-like V-type domain (aa's 22-128) and two N-linked glycosylation sites (aa's 90 and 99). Downstream of the Ig V-domain, the membrane proximal region of LMIR2 (aa 128-183) contains a high proportion of proline (18%), serine (20%) and threonine (13%) residues (1). The transmembrane segment contains a charged glutamic acid that contributes to cell activation (1-3). Human LMIR2 shares 52% aa sequence identity with the mouse LMIR2, which is also known as CLM4. Human LMIR2 is 90% identical to human LMIR1 within the Ig-like domain. LMIR2 is present on the surface of natural killer cells, granulocytes, most myeloid cells, dendritic cells, and a subpopulation of T and B lymphocytes (1, 3). Mouse LMIR2 has the characteristics of an activatory molecule capable of inducing cellular activation and effector function in most cells and macrophages (3). The ligand for LMIR2 is presently unknown.

PRODUCT SPECIFIC NOTICES

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