Mouse FCRL1/FcRH1 Alexa Fluor® 700-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF7286N
100 µg

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse FCRL1/FcRH1 in direct ELISAs. In direct ELISAs, less than 3% cross-reactivity with recombinant human FCRL1/FcRH1 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse FCRL1/FcRH1 Ala17-Ser219 Accession # Q8R4Y0
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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.*

CyTOF-ready	Optimal dilution of this antibody should be experimentally determined.
Flow Cytometry	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

FCRL1 (Fc receptor-like protein 1; also CD307a, FcRH1 and IFGP1) is a 36 kDa (predicted) member of the Ig Superfamily. In mouse, it is found on mature follicular and marginal B cells, splenic T cells and NK cells. FCRL1 is likely not a receptor for immunoglobulin. At present, it would appear that mouse FCRL1 serves as an inhibiting coreceptor, in as much as it contains a series of cytoplasmic ITIM motifs. Mature mouse FCRL1 is a 327 amino acid (aa) type I transmembrane protein (aa 17-343). It contains a 203 aa extracellular region (aa 17-219) that shows two C2-type Ig-like domains (aa 17-200), and a 103 aa cytoplasmic domain. There are multiple potential splice variants. One shows a deletion of aa 206-248 (potentially soluble), a second contains a six aa substitution for aa 319-343, a third possesses a three aa substitution for aa 209-343, and a fourth shows a 21 aa substitution for Ala11. Over aa 17-219, mouse FCRL1 shares 83% aa sequence identity with rat FCRL1. Over the same region, it shares 63% aa sequence identity with human FCRL1 when a third Ig-like domain that is present in human is excluded from the analysis.

PRODUCT SPECIFIC NOTICES

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