

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse FCRL1/FcRH1 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human FCRL1/FcRH1 is observed.
Source	Monoclonal Rat IgG ₁ Clone # 745916
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse FCRL1/FcRH1 Ala17-Ser219 Accession # Q8R4Y0
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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.

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10 ⁶ cells	Mouse splenocytes

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. 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.

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