

DESCRIPTION

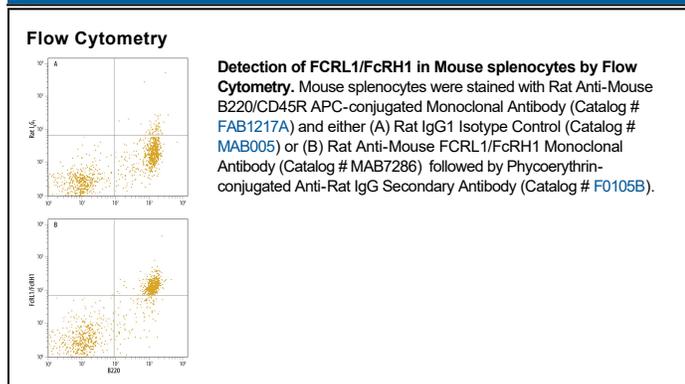
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|---------------------------|---|
| Species Reactivity | Mouse |
| Specificity | Detects mouse FCRL1/FcRH1 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human FCRL1/FcRH1 is observed. |
| Source | Monoclonal Rat IgG ₁ Clone # 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 |
| 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 |
|-----------------------|--|---------------|
| 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



PREPARATION AND STORAGE

| | |
|--------------------------------|--|
| Reconstitution | Sterile PBS to a final concentration of 0.5 mg/mL. |
| 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

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.