# Human FCRL6/FcRH6
# Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse $IgG_1$ Clone # 672505

Catalog Number: FAB6745R

100 µg

## DESCRIPTION

| | |
|---|---|
| **Species Reactivity** | Human |
| **Specificity** | Detects human FCRL6/FcRH6 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) FCRL1, rhFCRL2, rhFCRL3, rhFCRL4, rhFCRL5, rhFcRN, or rhFCRLB/FCRY is observed. |
| **Source** | Monoclonal Mouse $IgG_1$ Clone # 672505 |
| **Purification** | Protein A or G purified from hybridoma culture supernatant |
| **Immunogen** | Chinese hamster ovary cell line CHO-derived recombinant human FCRL6/FcRH6<br>Lys16-Leu312<br>Accession # Q6DN72 |
| **Conjugate** | Alexa Fluor 647<br>Excitation Wavelength: 650 nm<br>Emission Wavelength: 668 nm |
| **Formulation** | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.<br><br>*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 | Human peripheral blood lymphocytes |

## PREPARATION AND STORAGE

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| **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.**<br>● 12 months from date of receipt, 2 to 8 °C as supplied. |

## BACKGROUND

FCRL6 (Fc receptor-like protein 6; also FcRH6 and IFGP6) is a 66 kDa member of the Ig Superfamily. It is found on CD56dim $CD16^+$ NK cells, $CD56^+$ $CD3^+$ NKT cells, gd T cells, and effector plus effector-memory $CD8^+$ T cells. FCRL6 is not a receptor for immunoglobulin. It does, however, bind to isoforms of HLA-DR that are expressed on APCs. Given that FCRL6 contains a cytoplasmic ITIM, FCRL6 may function as an inhibitory receptor for MHC Class II. Mature human FCRL6 is a 415 amino acid (aa) type I transmembrane protein. It contains a 288 aa extracellular region (aa 20-307) that shows three C2-type Ig-like domains (aa 20-293), and a 106 aa cytoplasmic domain. There are multiple potential splice variants. One shows a deletion of aa 105-200 accompanied by a 13 aa substitution for aa 394-434; a second possesses a 15 aa substitution for aa 383-434; and a third shows an alternative start site seven aa upstream of the standard site accompanied by a 13 aa substitution for aa 394-434. Over aa 16-312, human FCRL6 shares only 33% aa identity with the mouse counterpart to FCRL6.

## PRODUCT SPECIFIC NOTICES

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