

Human FCRL6/FcRH6 Alexa Fluor® 594-conjugated Antibody

Monoclonal Mouse IgG₁ Clone # 672505

Catalog Number: FAB6745T

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 Lys16-Leu312 Accession # Q6DN72
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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	Human peripheral blood lymphocytes

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. <ul style="list-style-type: none"> 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.

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