Human FCRL6/FcRH6 Antibody

Monoclonal Mouse IgG_1 Clone # 672505

Catalog Number: MAB6745

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
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 as a 0.2 μm filtered solution in PBS.

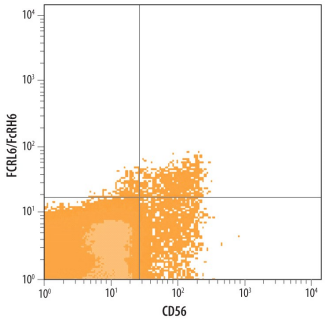
APPLICATIONS

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

Flow Cytometry



Detection of FCRL6/FcRH6 in Human Peripheral Blood Lymphocytes by Flow Cytometry. Human peripheral blood lymphocytes were stained with Mouse Anti-Human FCRL6/FcRH6 Monoclonal Antibody (Catalog # MAB6745) followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B) and Mouse Anti-Human NCAM-1/CD56 PE-conjugated Monoclonal Antibody (Catalog # FAB2408P). Quadrant markers were set based on control antibody staining (Catalog # MAB002).

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.** ● 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

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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