

Human FCRL6/FcRH6 Antibody

Monoclonal Mouse IgG₁ Clone # 672505 Catalog Number: MAB6745

DESCRIPTION

BESCHITTON		
Species Reactivity	Human	
Specificity	Detects human FCRL6/FcRH6 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) FCRL1, rhFCRL2, rhFCRL3, 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 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 Sample Concentration	
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 S	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.	

BACKGROUND

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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 There are multiple potential splice variants. One shows a deletion of aa 105-200 accompanied by a 13 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 384-434. Over aa 16-312, human FCRL6 shares only 33% aa identity with the mouse counterpart to FCRL6.

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.

Rev. 2/7/2018 Page 1 of 1



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