



Anti-human FCRL2/FcRH2 Antibody

ORDERING INFORMATION

Catalog Number: AF2048

Lot Number: KOP01

Size: 100 µg

Formulation: 0.2 µm filtered solution in PBS with 5% trehalose

Storage: -20° C

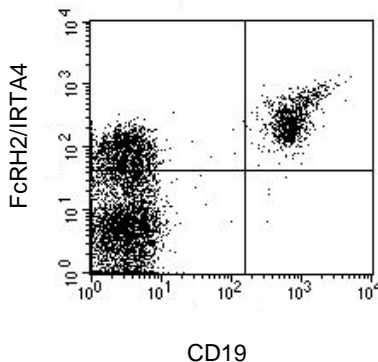
Reconstitution: sterile PBS

Specificity: human FCRL2 extracellular domain

Immunogen: NS0-derived rhFCRL2 extracellular domain

Ig Type: goat IgG

Applications: Western blot
Flow cytometry
Direct ELISA



Blood-derived lymphocytes were stained with anti-FCRL2/IRTA4 (R&D Systems, Cat. # AF2048) followed by APC-conjugated anti-goat IgG (R&D Systems, Cat. # F0108) and PE-conjugated anti-CD19 (R&D Systems, Cat. # FAB4867P). Quadrant markers were set based on control antibody staining (R&D Systems, Cat. # AB-108-C).

Preparation

Produced in goats immunized with purified, NS0-derived, recombinant human FCRL2 extracellular domain. Human FcRH2 specific IgG was purified by human FCRL2 affinity chromatography. FcRH2, also known as IRTA4, is a member of the Ig superfamily. It shares sequence homology with the classical Fc receptors for IgG and possesses cytoplasmic ITIM and ITAM-like motifs. FcRH2 is expressed almost exclusively on naïve B cells. The gene for FcRH2 is localized to the human chromosome 1q21-23 region, a hotspot for translocation events.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 0.5 mL of PBS is used, the antibody concentration will be 0.2 mg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a **manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for its ability to recognize human FCRL2 in the applications below.

Applications

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human FCRL2. The detection limit for rhFCRL2 is approximately 1 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows approximately 5% cross-reactivity with rhIRTA5 and less than 2% cross-reactivity with rhITRA1, rhIRTA2 and rhIRTA3.

Flow cytometry - This antibody was tested for flow cytometry using blood-derived lymphocytes. Dilute this antibody to 25 µg/mL and add 10 µL of the diluted solution to 1 - 2.5 x 10⁵ cells in a total reaction volume not exceeding 200 µL. The binding of unlabeled antibodies may be visualized by adding a secondary developing reagent such as anti-goat IgG conjugated to a fluorochrome.

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect human FCRL2. The detection limit for rhFCRL2 is approximately 0.3 ng/well.

Optimal dilutions should be determined by each laboratory for each application.

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R&D Systems, Inc.
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