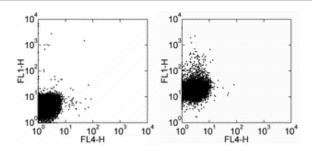


Anti-Mouse CD207 (Langerin) Alexa Fluor® 488

Catalog Number: 53-2073 Also Known As:CLEC4K

RUO: For Research Use Only. Not for use in diagnostic procedures.



Intracellular staining of mouse CD207-transiently transfected HEK 293T cells with staining buffer (autofluorescence) (left) or 0.5 µg of Anti-Mouse CD207 (Langerin) Alexa Fluor® 488 (right).

Product Information

Contents: Anti-Mouse CD207 (Langerin) Alexa Fluor® 488

REF Catalog Number: 53-2073 Clone: eBioRMUL.2 Concentration: 0.5 mg/mL

Host/Isotype: Rat IgG2a, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may

contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze.

Light sensitive material. LOT Batch Code: Refer to Vial Use By: Refer to Vial



Caution, contains Azide

Description

RMUL.2 is a monoclonal antibody that reacts with the predicted extracellular domain of mouse Langerin (CD207). Mouse Langerin (CD207) is expressed in a distinct subset of Dendritic cells called Langerhans cells (LC). Mouse Langerin is a 48kDa C-type lectin putative transmembrane protein that likely plays a role in antigen recognition and uptake. Langerhans cells are located in the epidermis and upon activation, reduce Langerin expression and begin migrating through the dermis towards lymphatic vessels. Expression of mouse Langerin in LC has been correlated to the presence of Birbeck Granules. Furthermore, the formation of Birbeck Granules has been observed upon transfection of Langerin cDNA into fibroblast cell lines.

Western Blotting with RMUL.2 reveals a 48kDa band in lysate from mouse ear epidermis, as well as in lysates from cells transfected with mouse Langerin cDNA. Cross reactivity of this antibody with other proteins has not been determined. Preliminary data from mouse Langerin cDNA transfected cells suggests that RMUL.2 can be used for intracellular flow cytometric analysis. We have observed in our transfectants the majority of protein is expressed intracellularly with a small percentage on the cell surface. In addition, RMUL.2 has also been tested by immunohistology on mouse ear epidermal sheets and shows specific staining when compared to a polyclonal antibody obtained from a different supplier.

Applications Reported

This eBioRMUL.2 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested

This eBioRMUL.2 antibody has been tested by intracellular staining and flow cytometric analysis of mouse CD207-transfected 293T cells. Please see Best Protocols Section (Staining Intracellular Antigens for Flow Cytometry) for staining protocol (refer to Protocol B: One-step protocol for intracellular (nuclear) proteins). This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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Related Products

00-5523 Foxp3 / Transcription Factor Staining Buffer Set 53-4321 Rat IgG2a K Isotype Control Alexa Fluor® 488 (eBR2a)

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