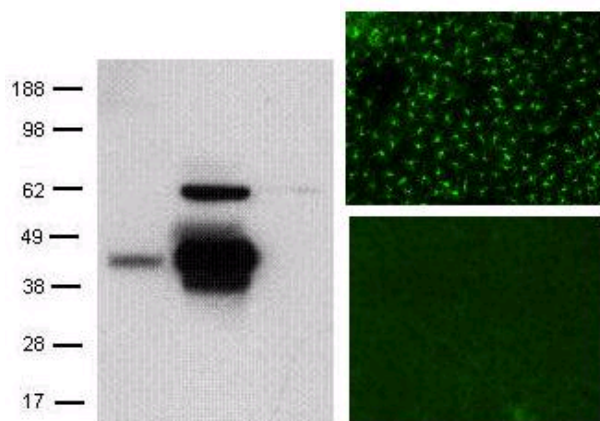


Anti-Mouse CD207 (Langerin) Purified

Catalog Number: 14-2073

Also Known As: CLEC4K

RUO: For Research Use Only



Left: Lysate from C57BL/6 mouse ear epidermis (left lane), CD207-transfected (middle lane) and untransfected 293T (right lane) were probed with 2 µg/mL of Anti-Mouse CD207 (Langerin) Purified and revealed with Anti-Rat IgG HRP.

Right: Staining of mouse epidermal sheets using Anti-Mouse CD207 (Langerin) Purified (top) or Rat IgG2a κ Isotype Control Purified (14-4321) (bottom). Courtesy of Mark Udey and Chris Nagao.

Product Information

Contents: Anti-Mouse CD207 (Langerin) Purified


REF Catalog Number: 14-2073

Clone: eBioRMUL.2

Concentration: 0.5 mg/ml


Host/Isotype: Rat IgG2a, κ

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 Temperature Limitation: Store at 2-8°C.

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, immunoblotting (WB), and immunohistochemical staining. (Fluorochrome conjugated eBioRMUL.2 is recommended for use in intracellular flow cytometry.)

Applications Tested

This eBioRMUL.2 antibody has been tested by immunoblotting. This can be used at less than or equal to 2µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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Valladeau J, Clair-Moninot V, Dezutter-Dambuyant C, Pin JJ, Kissenpfennig A, Mattei MG, Ait-Yahia S, Bates EE, Malissen B, Koch F, Fossiez F, Romani N, Lebecque S, Saeland S. Identification of mouse langerin/CD207 in Langerhans cells and some dendritic cells of lymphoid tissues. *J Immunol.* 2002 Jan 15;168(2):782-92.

Molinero LL, Zhou P, et al. 2008. Epidermal Langerhans cells promote skin allograft rejection in mice with NF-kappa B-impaired T cells. *Am J Transplant.* 8(1):21-31. (eBioRMUL.2, IC flow, PubMed)

Related Products

14-4321 Rat IgG2a K Isotype Control Purified

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