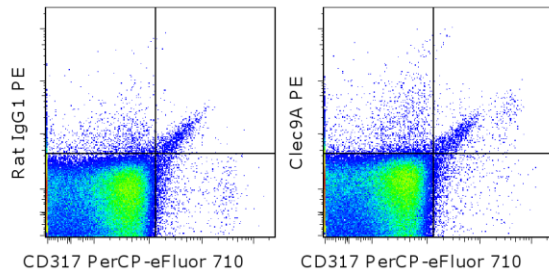


Anti-Mouse Clec9A PE

Catalog Number: 12-5975

Also known as: DNGR1, DNGR-1, DNGR 1

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



Staining of SJL splenocytes with Anti-Mouse CD317 PerCP-eFluor[®] 710 (cat. 46-3172) and 0.5 ug of Rat IgG1 K Isotype Control PE (cat. 12-4301) (left) or 0.5 ug of Anti-Mouse Clec9A PE (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse Clec9A PE
Catalog Number: 12-5975
Clone: 42D2
Concentration: 0.2 mg/mL
Host/Isotype: Rat IgG1

REF

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.
Batch Code: Refer to vial
Use By: Refer to vial



LOT



Description

This 42D2 monoclonal antibody reacts with mouse Clec9A, which is also known as DNGR-1. Clec9A is a C-type lectin-like receptor expressed on conventional and plasmacytoid dendritic cells (DCs). In particular, CD8⁺ conventional DCs in the thymus, spleen, and lymph nodes, as well as CD24⁺ DCs in the blood, express Clec9A. This receptor is not detectable on most B cells, T and NK cells, monocytes, and macrophages. The cytoplasmic domain of Clec9A contains an ITAM motif that has been demonstrated to phosphorylate Syk tyrosine kinase, leading to NFAT activation. This signaling reportedly mediates the presentation of necrotic cell-associated antigens by CD8⁺ DCs in innate immunity.

Applications Reported

This 42D2 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This 42D2 antibody has been tested by flow cytometric analysis of mouse splenocytes. 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

Sancho D, Joffre OP, Keller AM, Rogers NC, Martínez D, Hernanz-Falcón P, Rosewell I, Reis e Sousa C. Identification of a dendritic cell receptor that couples sensing of necrosis to immunity. *Nature*. 2009 Apr 16;458(7240):899-903.

Caminschi I, Proietto AI, Ahmet F, Kitsoulis S, Shin Teh J, Lo JC, Rizzitelli A, Wu L, Vremec D, van Dommelen SL, Campbell IK, Maraskovsky E, Braley H, Davey GM, Mottram P, van de Velde N, Jensen K, Lew AM, Wright MD, Heath WR, Shortman K, Lahoud MH. The dendritic cell subtype-restricted C-type lectin Clec9A is a target for vaccine enhancement. *Blood*. 2008 Oct 15;112(8):3264-73.

Huysamen C, Willment JA, Dennehy KM, Brown GD. CLEC9A is a novel activation C-type lectin-like receptor

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expressed on BDCA3+ dendritic cells and a subset of monocytes. J Biol Chem. 2008 Jun 13;283(24):16693-701.

Related Products

12-4301 Rat IgG1 K Isotype Control PE

46-3172 Anti-Mouse CD317 (BST2, PDCA-1) PerCP-eFluor® 710 (eBio927)

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