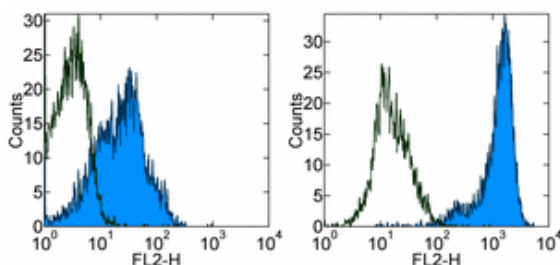


Anti-Human CD205 Purified

Catalog Number: 14-2059

Also Known As: DEC-205, DEC205, Ly75

RUO: For Research Use Only



Staining of normal human peripheral blood cells (left) and mature dendritic cells (right) with Mouse IgG2b κ Isotype Control Purified (cat. 14-4732) (open histogram) or 0.015 μ g of Anti-Human CD205 Purified (filled histogram) followed by Anti-Mouse IgG Biotin (cat. 13-4013) and Streptavidin PE (cat. 12-4317). Total viable cells were used for analysis.

Product Information

Contents: Anti-Human CD205 Purified

REF Catalog Number: 14-2059

Clone: MG38

Concentration: 0.5 mg/ml

Host/Isotype: Mouse IgG2b, κ

HLDA Workshop: N/A

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



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial



Caution, contains Azide

Description

The MG38 monoclonal antibody reacts with human CD205, also known as DEC-205, an integral membrane protein homologous to the macrophage mannose receptor. CD205 is an endocytic dendritic receptor that mediates efficient processing and presentation of antigens on MHC class II productions *in vivo*. CD205 is highly expressed by dendritic cells (DCs) within the T cell areas of lymphoid tissues, particularly on CD8⁺ DCs that are believed to play a role in cross-priming. Expression of CD205 is detected with this antibody at high intensity on *in vitro* derived mature human DCs (mDC) and at intermediate intensity on immature human DCs (iDC). All leukocytes from peripheral blood show a degree of staining with this mAb that can be minimized by using very low concentrations of MG38.

Applications Reported

The MG38 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistochemical staining of frozen tissue sections.

Applications Tested

This MG38 antibody has been tested by flow cytometric analysis of *in vitro* derived human dendritic cells and peripheral blood leukocytes. This can be used at less than or equal to 0.03 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. 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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Bonifaz L, Bonnyay D, Mahnke K, Rivera M, Nussenzweig MC, Steinman RM. Efficient targeting of protein antigen to the dendritic cell receptor DEC-205 in the steady state leads to antigen presentation on major histocompatibility complex class I products and peripheral CD8⁺ T cell tolerance. *J Exp Med*. 2002 Dec 16;196(12):1627-38.

Hawiger D, Inaba K, Dorsett Y, Guo M, Mahnke K, Rivera M, Ravetch JV, Steinman RM, Nussenzweig MC. Dendritic cells induce peripheral T cell unresponsiveness under steady state conditions *in vivo*. *J Exp Med*. 2001 Sep 17;194(6):769-79.

Guo M, Gong S, Maric S, Misulovin Z, Pack M, Mahnke K, Nussenzweig MC, Steinman RM. A monoclonal antibody to the DEC-205 endocytosis receptor on human dendritic cells. *Hum Immunol*. 2000 Aug;61(8):729-38.

Related Products

11-4011 Anti-Mouse IgG FITC

11-4317 Streptavidin FITC

12-4317 Streptavidin PE

13-4013 Anti-Mouse IgG Biotin (Polyclonal)

14-4732 Mouse IgG2b K Isotype Control Purified

17-4317 Streptavidin APC

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