

Anti-Human CD205 PE

Catalog Number: 12-2059

Also Known As: DEC-205, DEC205, Ly75

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

Product Information

Contents: Anti-Human CD205 PE

 Catalog Number: 12-2059

Clone: MG38

Concentration: 5 µL (0.06 µg)/test

Host/Isotype: Mouse IgG2b, kappa

HLDA Workshop: N/A

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

 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

This MG38 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This MG38 antibody has been pre-titrated and tested by flow cytometric analysis of *in vitro* derived human dendritic cells and peripheral blood leukocytes. This can be used at 5 µL (.06 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.

References

Cudrici C, Ito T, Zafranskaia E, Niculescu F, Mullen KM, Vlaicu S, Judge SI, Calabresi PA, Rus H. Dendritic cells are abundant in non-lesional gray matter in multiple sclerosis. *Exp Mol Pathol*. 2007 Oct;83(2):198-206. (MG38, IHC frozen)

Kato M, McDonald KJ, Khan S, Ross IL, Vuckovic S, Chen K, Munster D, MacDonald KP, Hart DN. Expression of human DEC-205 (CD205) multilectin receptor on leukocytes. *Int Immunol*. 2006 Jun;18(6):857-69. (MG38, IHC frozen, PubMed)

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

12-4732 Mouse IgG2b K Isotype Control PE

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