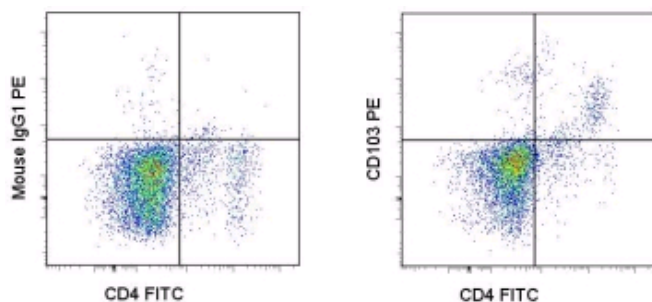


Anti-Rat CD103 (Integrin alpha E) PE

Catalog Number: 12-1030

Also Known As: Integrin α E, ITGAE

RUO: For Research Use Only



Staining of rat splenocytes with Anti-Rat CD4 FITC (cat. 11-0040) and 0.125 μ g of Mouse IgG1 κ Isotype Control PE (cat. 12-4714) (left) or 0.125 μ g of Anti-Rat CD103 (Integrin α E) PE (right). Cells in the lymphocyte gate were used for analysis and events are displayed after gating out CD3+ T cells and CD45RB+ cells and gating on the remaining cells, which are MHC Class II+.

Product Information

Contents: Anti-Rat CD103 (Integrin alpha E) PE


REF Catalog Number: 12-1030

Clone: OX62

Concentration: 0.2 mg/ml


Host/Isotype: Mouse IgG1

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

The OX62 monoclonal antibody reacts with rat CD103, also known as α E2 integrin. CD103 was originally identified on rat veiled dendritic cells, and is expressed by dendritic epidermal T cells in the skin, intraepithelial lymphocytes in the small intestine and by dendritic cells associated with $\gamma\delta$ T cells. Integrins are a family of heterodimeric proteins which contain non-covalently associated α and β transmembrane glycoproteins. Integrins function as receptors for extracellular matrix and cell-cell adhesion molecules.

Applications Reported

This OX62 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This OX62 antibody has been tested by flow cytometric analysis of rat splenocytes. This can be used at less than or equal to 0.25 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Brenan M, Puklavec M. The MRC OX-62 antigen: a useful marker in the purification of rat veiled cells with the biochemical properties of an integrin. *J Exp Med.* 1992 Jun 1;175(6):1457-65. (OX62, mAb development, FC, PubMed)

Voisine C, Hubert FX, Trinité B, Heslan M, Josien R. Two phenotypically distinct subsets of spleen dendritic cells in rats exhibit different cytokine production and T cell stimulatory activity. *J Immunol.* 2002 Sep 1;169(5):2284-91. (OX62, FC, PubMed)

Hubert FX, Voisine C, Louvet C, Heslan M, Josien R. Rat plasmacytoid dendritic cells are an abundant subset of MHC class II+ CD4+CD11b-OX62- and type I IFN-producing cells that exhibit selective expression of Toll-like receptors 7 and 9 and strong responsiveness to CpG. *J Immunol.* 2004 Jun 15;172(12):7485-94. (OX62, FC, PubMed)

Related Products

12-1031 Anti-Mouse CD103 (Integrin alpha E) PE (2E7)

12-1038 Anti-Human CD103 (Integrin alpha E) PE (B-Ly7)

12-4714 Mouse IgG1 K Isotype Control PE

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