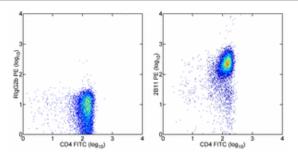


Anti-Mouse CD184 (CXCR4) PE

Catalog Number: 12-9991 Also Known As:Fusin RUO: For Research Use Only



Staining of BALB/c thymocytes with Anti-Mouse CD4 FITC (cat. 11-0041) and 0.5 μ g of Rat IgG2b κ Isotype Control PE (cat. 12-4031) (left) or 0.5 μ g of Anti-Mouse CD184 (CXCR4) PE (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD184 (CXCR4) PE

REF Catalog Number: 12-9991

Clone: 2B11

Concentration: 0.2 mg/ml Host/Isotype: Rat IgG2b, κ 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 2B11 monoclonal antibody reacts with mouse and human CXCR4, also known as CD184, Fusin, LESTR, or HUMSTR. Fusin is a member of the G-protein-coupled chemokine receptor family with seven membrane-spanning domains, and functions as a coreceptor for X4 HIV-1 entry into CD4+ cells. In addition it has been shown to play a role in lymphocyte migration. The ligand for CXCR4 is SDF1. CXCR4 is required for maintenance of granulocyte progenitors in the bone marrow and essential for B cell development. Expression of CXCR4 is different between mice and human. In the thymus CXCR4 is restricted to CD4+CD8+ cells while in the spleen predominant expression is found on B lymphocytes. The monoclonal antibody 2B11 recognizes the amino terminus of CXCR4 and has been reported to have functional activity; it does not block SDF1a but causes internalization of the receptor.

Applications Reported

This 2B11 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This 2B11 antibody has been tested by flow cytometric analysis of mouse thymocytes. This can be used at less than or equal to 1 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.

It is recommended that the incubation time with 2B11 antibody by at least 45 minutes for optimal staining.

References

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Stumm RK, Rummel J, Junker V, Culmsee C, Pfeiffer M, Krieglstein J, Hollt V, Schulz S. A dual role for the SDF-1/CXCR4 chemokine receptor system in adult brain: isoform-selective regulation of SDF-1 expression modulates CXCR4-dependent neuronal plasticity and cerebral leukocyte recruitment after focal ischemia. J Neurosci. 2002 Jul 15;22(14):5865-78. (2B11, WB, PubMed)

Related Products

12-4031 Rat IgG2b K Isotype Control PE

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