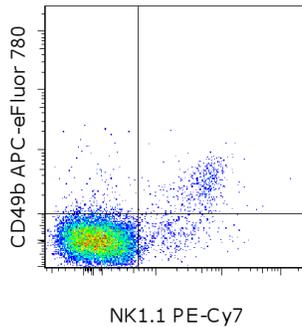


Anti-Mouse CD49b (Integrin alpha 2) APC-eFluor[®] 780

Catalog Number: 47-5971

Also known as: ITGA2, pan-NK

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



Staining of C57Bl/6 splenocytes with Anti-Mouse NK1.1 PE-Cy7 (cat. 25-5941) and 0.125 μ g of Anti-Mouse CD49b (Integrin alpha 2) APC-eFluor[®] 780. Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse CD49b (Integrin alpha 2) APC-eFluor[®] 780

REF **Catalog Number:** 47-5971

Clone: DX5

Concentration: 0.2 mg/mL

Host/Isotype: Rat IgM, kappa

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. This tandem dye is sensitive to photo-induced oxidation. Protect this vial from light during storage, handling, & experimental procedures.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium azide



LOT



Description

The DX5 monoclonal antibody reacts with CD49b, an antigen expressed on a majority of mouse natural killer cells and a subset of T cells. DX5 reacts with all strains of mouse tested including the most commonly used strains, BALB/c, C57BL/6, C3H, CBA, DBA, AKR, SJL and 129. Simultaneous staining of C57BL/6 spleen cells with anti-NK1.1 mAb (PK136) and DX5 reveals coexpression of both markers by a majority of cells as well as presence of small populations of DX5+PK136- and DX5-PK136+ cells.

Applications Reported

This DX5 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This DX5 antibody has been tested by flow cytometric analysis of C57Bl/6 mouse spleen cells. 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.

APC-eFluor[®] emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Light sensitivity: Tandem is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 μ L cell sample + 100 μ L IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance

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after fixation can be made, but clone specific performance should be determined empirically.

References

Arase H, Saito T, Phillips JH, Lanier LL. Cutting edge: the mouse NK cell-associated antigen recognized by DX5 monoclonal antibody is CD49b (alpha 2 integrin, very late antigen-2). J Immunol. 2001 Aug 1;167(3):1141-4.

Hussell T, Openshaw PJ. Intracellular IFN-gamma expression in natural killer cells precedes lung CD8+ T cell recruitment during respiratory syncytial virus infection. J Gen Virol. 1998 Nov;79 (Pt 11):2593-601.

Vos Q, Ortaldo JR, Conan-Cibotti M, Vos MD, Young HA, Anderson SK, Witherspoon K, Prager I, Snapper CM, Mond JJ. Phenotypic and functional characterization of a panel of cytotoxic murine NK cell clones that are heterogeneous in their enhancement of Ig secretion in vitro. Int Immunol. 1998 Aug;10(8):1093-101.

Related Products

25-5941 Anti-Mouse NK1.1 PE-Cy7 (PK136)

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