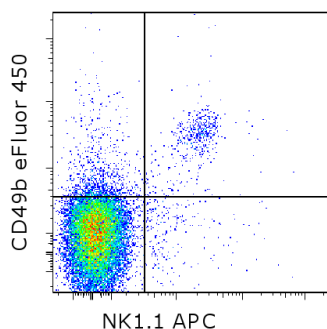


Anti-Mouse CD49b (Integrin alpha 2) eFluor® 450

Catalog Number: 48-5971

Also known as: DX5, pan-NK

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



Staining of C57Bl/6 splenocytes with Anti-Mouse NK1.1 APC (cat. 17-5941) and 0.5 ug of Anti-Mouse CD49b (Integrin alpha 2) eFluor® 450. Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD49b (Integrin alpha 2) eFluor® 450

Catalog Number: 48-5971

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.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium azide

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 mouse splenocytes. This can be used at less than or equal to 1 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

eFluor® 450 is a replacement for Pacific Blue®. eFluor® 450 emits at 456 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

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

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heterogeneous in their enhancement of Ig secretion in vitro. Int Immunol. 1998 Aug;10(8):1093-101.

Related Products

17-5941 Anti-Mouse NK1.1 APC (PK136)

48-4341 Rat IgM Isotype Control eFluor® 450