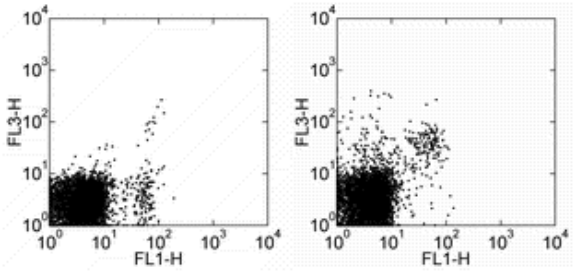
Anti-Mouse CD49b (Integrin alpha 2) PE-Cyanine7

Catalog Number: 25-5971
Also Known As:ITGA2, DX5, pan-NK
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of C57BL/6 splenocytes with Anti-Mouse NK1.1 FITC (cat. 11-5941) and staining buffer (autofluorescence) (left) or 0.25 ug of Anti-Mouse CD49b (Integrin alpha 2) PE-Cyanine7 (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD49b (Integrin alpha 2) PE-Cyanine7
REF **Catalog Number:** 25-5971
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.
LOT **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 splenocyte suspensions. This can be used at less than or equal to 0.5 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Light sensitivity: This tandem dye 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 uL cell sample + 100 uL 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 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

11-5941 Anti-Mouse NK1.1 FITC (PK136)

Legal

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