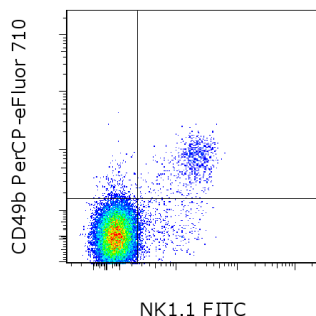


## Anti-Mouse CD49b (Integrin alpha 2) PerCP-eFluor® 710

**Catalog Number:** 46-5971

**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 Anti-Mouse CD49b (Integrin alpha 2) PerCP-eFluor® 710. Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Mouse CD49b (Integrin alpha 2) PerCP-eFluor® 710

**Catalog Number:** 46-5971

**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 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<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor® 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

### 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.

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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)