

# CD49b (Integrin alpha 2) Monoclonal Antibody (DX5), PerCP-eFluor 710, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotope	Rat / IgM, kappa
Recommended Isotype Control	Rat IgM Isotype Control (eBRM), PerCP-eFluor 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	DX5
Conjugate	PerCP-eFluor™ 710
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_11150237

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	0.5 µg/test	3 Publications

## Product Specific Information

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.

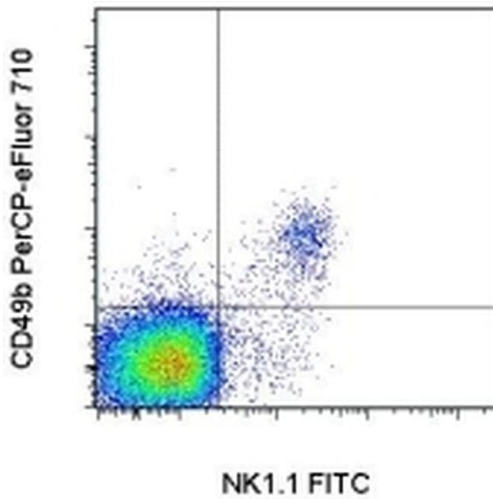
PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic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

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

### Product Images For CD49b (Integrin alpha 2) Monoclonal Antibody (DX5), PerCP-eFluor 710, eBioscience™



#### CD49b (Integrin alpha 2) Antibody (46-5971-82) in Flow

Staining of C57Bl/6 splenocytes with Anti-Mouse NK1-1 FITC (Product # 11-5941-82) and Anti-Mouse CD49b (Integrin alpha 2) PerCP-eFluor® 710. Total viable cells were used for analysis.

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## Flow Cytometry (3)

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### Conventional NK cells and ILC1 are partially ablated in the livers of Ncr1<sup>iCre</sup>Tbx21<sup>fl/fl</sup> mice.

"46-5971 was used in Flow cytometry/Cell sorting to examine the role of Tbet-dependent type I innate lymphoid cells in the murine liver."

Authors: Cuff AO, Male V

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2018

Cancer cell

### Antibody Tumor Targeting Is Enhanced by CD27 Agonists through Myeloid Recruitment.

"46-5971 was used in Flow cytometry/Cell sorting to demonstrate the therapeutic advantage of using an immunomodulatory mAb to regulate lymphoid cells, which then recruit and activate myeloid cells for enhanced killing of mAb-opsonized tumors."

Authors: Turaj AH, Hussain K, Cox KL, Rose-Zerilli MJ, Testa J, Dahal LN, Chan HTC, James S, Field VL, Carter MJ, Kim HJ, West JJ, Thomas LJ, He LZ, Keler T, Johnson PWM, Al-Shamkhani A, Thirdborough SM, Beers SA, Cragg MS, Glennie MJ, Lim SH

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2017

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