

# CD49b (Integrin alpha 2) Monoclonal Antibody (DX5), PE, eBioscience™

## Product Details

Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgM, kappa
Recommended Isotype Control	Rat IgM Isotype Control (eBRM), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	DX5
Conjugate	PE
Excitation/Emission Max	565/576 nm
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_466073

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	57 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.

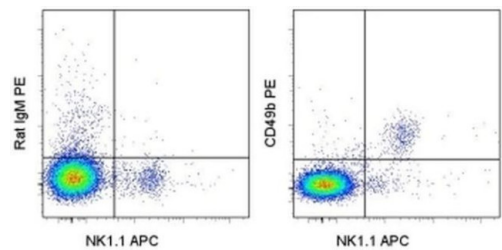
**Applications Reported:** The DX5 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** The 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.

**Excitation:** 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.

Product Images For CD49b (Integrin alpha 2) Monoclonal Antibody (DX5), PE, eBioscience™



**CD49b (Integrin alpha 2) Antibody (12-5971-82) in Flow**  
Staining of C57Bl/6 splenocytes with Anti-Mouse NK1.1 APC (Product # 17-5941-82) and 0.25 µg of Rat IgM Isotype Control PE (Product # 12-4341-82) (left) or 0.25 µg of Anti-Mouse CD49b (Integrin alpha 2) PE (right). Total viable cells were used for analysis.

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57 References

Flow Cytometry (57)

<p><b>Oncogene</b></p> <p><b>Mesenchymal stromal cells equipped by IFN empower T cells with potent anti-tumor immunity.</b></p> <p>"12-5971-82 was used in Flow Cytometry to conclude that IFN-MSCs represent a novel tumor immunotherapy strategy, especially when combined with PD-L1 blockade."</p> <p>Authors: Zhang T,Wang Y,Li Q,Lin L,Xu C,Xue Y,Hu M,Shi Y,Wang Y</p>	<p><b>Year</b> 2022</p> <p><b>Species</b> Mouse</p>
<p><b>Journal of immunology (Baltimore, Md. : 1950)</b></p> <p><b>PRMT5 Deficiency Enforces the Transcriptional and Epigenetic Programs of Klrp1<sup>+</sup>CD8<sup>+</sup> Terminal Effector T Cells and Promotes Cancer Development.</b></p> <p>"12-5971-82 was used in Flow cytometry/Cell sorting to validate the importance of targeting PRMT5 in tumor treatment, because PRMT5 deficiency enforced Klrp1+ terminal CD8+ T cell development and eliminated antitumor activity."</p> <p>Authors: Zheng Y,Chen Z,Zhou B,Chen S,Han L,Chen N,Ma Y,Xie G,Yang J,Nie H,Shen L</p>	<p><b>Year</b> 2022</p> <p><b>Species</b> Mouse</p>

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