

CD49b (Integrin alpha 2) Monoclonal Antibody (DX5), FITC, 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), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	DX5
Conjugate	FITC
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_465327

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	40 Publications
Immunofluorescence (IF)	-	2 Publications
Immunohistochemistry (IHC)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication
Western Blot (WB)	-	1 Publication

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.

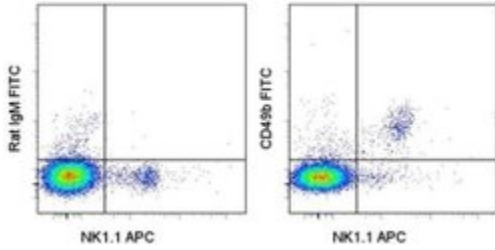
Applications Tested: The DX5 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the

antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD49b (Integrin alpha 2) Antibody (11-5971-82) in Flow

Staining of BALB/c splenocytes with Anti-Mouse NK1-1 APC (Product # 17-5941-82) and 0.25 µg of Rat IgM Isotype Control FITC (Product # 11-4341-82) (left) or 0.25 µg of Anti-Mouse CD49b (Integrin alpha 2) FITC (right). Total viable cells were used for analysis.

[View more figures on thermofisher.com](http://thermofisher.com)

Flow Cytometry (40)

NPJ vaccines

Enhanced germinal center reaction by targeting vaccine antigen to major histocompatibility complex class II molecules.

"11-5971 was used in Flow cytometry/Cell sorting to study the underlying mechanism by which the targeting of antigen to MHCII on antigen-presenting cells increases antibody responses."

Authors: Andersen TK, Huszthy PC, Gopalakrishnan RP, Jacobsen JT, Fauskanger M, Tveita AA, Grødeland G, Bogen B

Species
Mouse

Dilution
Not Cited

Year
2020

Wellcome open research

Characterisation of innate lymphoid cell populations at different sites in mice with defective T cell immunity.

"11-5971 was used in Flow cytometry/Cell sorting to compare the innate lymphoid cell populations at different sites in mice with defective T cell immunity."

Authors: Dutton EE, Camelo A, Sleeman M, Herbst R, Carlesso G, Belz GT, Withers DR

Species
Mouse

Dilution
1:200

Year
2019

[View more Flow references on thermofisher.com](#)

Immunofluorescence (2)

Breast cancer research : BCR

Evidence for a multipotent mammary progenitor with pregnancy-specific activity.

"Published figure using CD49b (Integrin alpha 2) monoclonal antibody (Product # 11-5971-82) in Immunofluorescence"

Authors: Kaanta AS, Virtanen C, Selfors LM, Brugge JS, Neel BG

Species
Not Applicable

Dilution
Not Cited

Year
2014

Journal of immunology (Baltimore, Md. : 1950)

Hypercostimulation through 4-1BB distorts homeostasis of immune cells.

"11-5971 was used in Immunohistochemistry-immunofluorescence to investigate the potential side effects of immunotherapeutic strategies using Abs against costimulatory molecules."

Authors: Lee SW, Salek-Ardakani S, Mittler RS, Croft M

Species
Mouse

Dilution
Not Cited

Year
2009

More applications with references on thermofisher.com

[WB \(1\)](#)

[Misc \(1\)](#)

[IHC \(1\)](#)

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