

CD49b (Integrin alpha 2) Monoclonal Antibody (DX5), APC, 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), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	DX5
Conjugate	APC
Form	Liquid
Concentration	0.2 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_469485

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	46 Publications
Miscellaneous PubMed (Misc)	-	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.

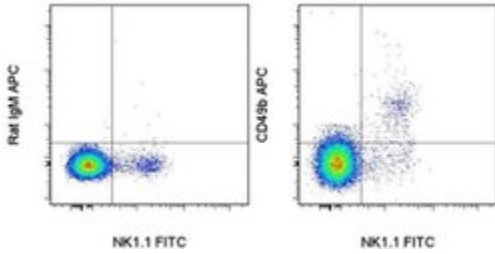
Applications Reported: The DX5 antibody has been reported for use in flow cytometric analysis.

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 1 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: 633-647 nm; **Emission:** 660 nm; **Laser:** Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD49b (Integrin alpha 2) Antibody (17-5971-82) in Flow

Staining of C57Bl/6 splenocytes with Anti-Mouse NK1-1 FITC (Product # 11-5941-82) and 0.5 µg of Rat IgM Isotype Control APC (Product # 17-4341-82) (left) or 0.5 µg of Anti-Mouse CD49b (Integrin alpha 2) APC (right). Cells in the lymphocyte gate were used for analysis.

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47 References

Flow Cytometry (46)

Cell

Natural Killer Cells Degenerate Intact Sensory Afferents following Nerve Injury.

"17-5971 was used in Flow cytometry/Cell sorting to suggest the therapeutic potential of modulating NK cell function to resolve painful neuropathy through the clearance of partially damaged nerves."

Authors: Davies AJ, Kim HW, Gonzalez-Cano R, Choi J, Back SK, Roh SE, Johnson E, Gabriac M, Kim MS, Lee J, Lee JE, Kim YS, Bae YC, Kim SJ, Lee KM, Na HS, Riva P, Latremoliere A, Rinaldi S, Ugolini S, Costigan M, Oh SB

Species
Mouse

Dilution
1:500

Year
2019

Oncotarget

Investigation of tumor-tumor interactions in a double human cervical carcinoma xenograft model in nude mice.

"17-5971 was used in Flow cytometry/Cell sorting to identify the potential use of cidofovir in therapeutic strategies to kill tumour cells and influence the immune system to fight cancer."

Authors: Mertens B, Cristina de Araujo Nogueira T, Topalis D, Stranska R, Snoeck R, Andrei G

Species
Mouse

Dilution
Not Cited

Year
2018

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

Miscellaneous PubMed (1)

JCI insight

Preferential TNF signaling via TNFR2 regulates epithelial injury and duct obstruction in experimental biliary atresia.

"17-5971 was used in Magnetic cell separation to determine factors regulating the pathogenic mechanisms of biliary atresia."

Authors: Shivakumar P, Mizuochi T, Mourya R, Gutta S, Yang L, Luo Z, Bezerra JA

Species
Mouse

Dilution
Not Cited

Year
2017

More applications with references on thermofisher.com

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