

CD49b (Integrin alpha 2) Monoclonal Antibody (DX5), Alexa Fluor™ 700, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgM, kappa
Class	Monoclonal
Type	Antibody
Clone	DX5
Conjugate	Alexa Fluor™ 700
Excitation/Emission Max	696/719 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_2574506

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Flow Cytometry (Flow)	0.125 µg/test	4 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.

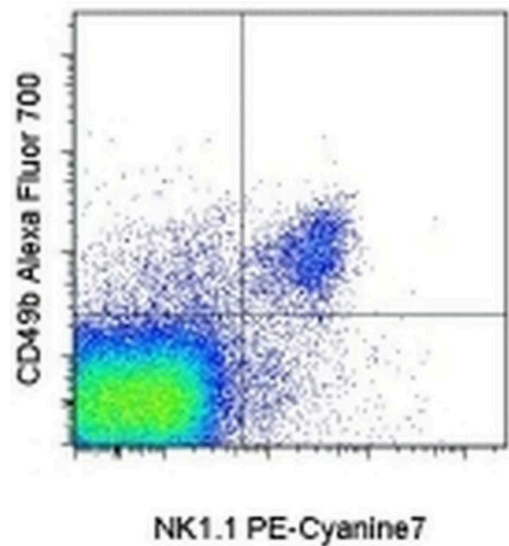
Applications Tested: This DX5 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined 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.

Alexa Fluor® 700 emits at 723 nm and can be excited with the red laser (633 nm). Most instruments will require a 685 LP mirror and 710/20 filter. Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 633-647 nm; **Emission:** 723 nm; **Laser:** Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD49b (Integrin alpha 2) Monoclonal Antibody (DX5), Alexa Fluor™ 700, eBioscience™



CD49b (Integrin alpha 2) Antibody (56-5971-80) in Flow
Staining of C57Bl/6 splenocytes with Anti-Mouse NK1-1 PE-Cyanine7 (Product # 25-5941-82) and 0.06 µg of Anti-Mouse CD49b (Integrin alpha 2) Alexa Fluor® 700. Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](#)

6 References

Immunohistochemistry (2)

<p>Oncology reports</p> <p>Exosomes derived from retinoblastoma cells enhance tumour deterioration by infiltrating the microenvironment.</p> <p>"Published figure using CD49b (Integrin alpha 2) monoclonal antibody (Product # 56-5971-82) in Immunohistochemistry"</p> <p>Authors: Chen S,Chen X,Qiu J,Chen P,Han X,Wu Y,Zhuang J,Yang M,Wu C,Wu N,Yang Y,Ge J,Yu K,Zhuang J</p>	<p>Year</p> <p>2021</p>
---	-------------------------

<p>Breast cancer research : BCR</p> <p>Evidence for a multipotent mammary progenitor with pregnancy-specific activity.</p> <p>"Published figure using CD49b (Integrin alpha 2) monoclonal antibody (Product # 56-5971-82) in Immunofluorescence"</p> <p>Authors: Kaanta AS,Virtanen C,Selfors LM,Brugge JS,Neel BG</p>	<p>Year</p> <p>2014</p>
---	-------------------------

Flow Cytometry (4)

<p>Journal of neuroinflammation</p> <p>Brain endothelial CXCL12 attracts protective natural killer cells during ischemic stroke.</p> <p>"56-5971-82 was used in Flow cytometry/Cell sorting to show a role for blood-brain barrier-derived CXCL12 in attracting protective NK cells to ischemic brain lesions and identifies a new CXCL12/CXCR4-mediated component of the innate immune response to stroke."</p> <p>Authors: Wang S,de Fabritus L,Kumar PA,Werner Y,Ma M,Li D,Siret C,Simic M,Li B,Kerdiles YM,Hou L,Stumm R,van de Pavert SA</p>	<p>Year</p> <p>2023</p> <p>Species</p> <p>Mouse</p>
--	---

<p>The Journal of experimental medicine</p> <p>Stage-specific action of Runx1 and GATA3 controls silencing of PU.1 expression in mouse pro-T cells.</p> <p>"Published figure using CD49b (Integrin alpha 2) monoclonal antibody (Product # 56-5971-82) in Flow Cytometry"</p> <p>Authors: Hosokawa H,Koizumi M,Masuhara K,Romero-Wolf M,Tanaka T,Nakayama T,Rothenberg EV</p>	<p>Year</p> <p>2021</p>
--	-------------------------

More applications with references on thermofisher.com

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.