

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

Product Details	
Size	500 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgM, kappa
Class	Monoclonal
Type	Antibody
Clone	DX5
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4°C
RRID	AB_467767

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	3 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	56 Publications
Functional Assay (Functional)	-	1 Publication
Miscellaneous PubMed (Misc)	-	2 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. This antibody does not block adhesion and function of NK cells, and is not useful for immunoprecipitation and immunohistochemical staining of mouse tissues.

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

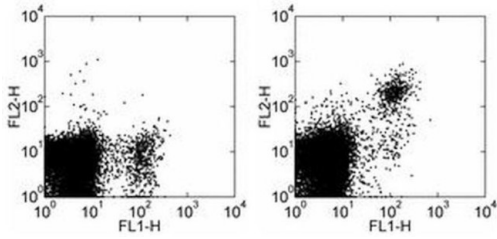
that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD49b (Integrin alpha 2) Antibody (14-5971-85) in Flow

Staining of C57Bl/6 splenocytes with FITC anti-mouse NK-1.1 (Product # 11-5941-82) and 0.25 µg of Rat IgM, K Isotype Control Purified (Product # 14-4341-82) (left) or 0.25 µg of Anti-Mouse CD49b Purified (right) followed by Anti-Rat IgM PE (Product # 12-0990-82). Cells in the lymphocyte gate were used for analysis.

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

66 References

Western Blot (1)

Journal of virology

Vesicular stomatitis virus expressing tumor suppressor p53 is a highly attenuated, potent oncolytic agent.

"Published figure using CD49b (Integrin alpha 2) monoclonal antibody (Product # 14-5971-85) in Western Blot"

Authors: Heiber JF, Barber GN

Year
2011

Species
Mouse

Immunohistochemistry (3)

The American journal of pathology

Exposure to Microbial Metabolite Butyrate Prolongs the Survival Time and Changes the Growth Pattern of Human Papillomavirus 16 E6/E7-Immortalized Keratinocytes in Vivo.

"14-5971-85 was used in Immunohistochemistry to show that butyrate treatment changed the property of HPV16 E6/E7-immortalized keratinocytes."

Authors: Li M, McGhee EM, Shinno L, Lee K, Lin YL

Year
2021

Species
Mouse

Dilution
1:200

Oncology reports

Exosomes derived from retinoblastoma cells enhance tumour deterioration by infiltrating the microenvironment.

"14-5971-85 was used in Immunocytochemistry to reveal the role of exosomes (EXOs) from retinoblastoma cells in tumour development."

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

Year
2021

Species
Mouse

Dilution
1:100

[View more IHC references on thermofisher.cn](#)

Immunohistochemistry (Paraffin) (1)

Journal of immunology (Baltimore, Md. : 1950)

Inflammation induced by MMP-9 enhances tumor regression of experimental breast cancer.

"14-5971-85 was used immunohistochemistry (paraffin) identify matrix metalloproteinase-9 as a potent player in modulating the innate immune response into antitumour activities."

Authors: Leifler KS, Svensson S, Abrahamsson A, Bendrik C, Robertson J, Gaudie J, Olsson AK, Dabrosin C

Year
2013

Species
Mouse

More applications with references on thermofisher.cn

[IHC \(F\) \(1\)](#)

[ICC/IF \(1\)](#)

[Flow \(56\)](#)

[Functional \(1\)](#)

[Misc \(2\)](#)

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.