



CD49b (Integrin alpha 2) Monoclonal Antibody (DX5), PE-Cyanine7, eBioscience™

Product Details	
Size	100 μg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgM, kappa
Class	Monoclonal
Туре	Antibody
Clone	DX5
Conjugate	PE-Cyanine7
Excitation/Emission Max	569/780 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_469667

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 μg/test	21 Publications
Functional Assay (FN)	-	1 Publication
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: 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 $0.5~\mu g$ per test. A test is defined as the amount (μg) of antibody that will stain a cell sample in a final volume of $100~\mu L$. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

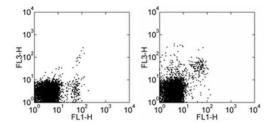
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 μ L cell sample + 100 μ L IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific

performance should be determined empirically.

Excitation: 488-561 nm; Emission: 775 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-Cyanine7, eBioscience™



CD49b (Integrin alpha 2) Antibody (25-5971-82) in Flow Staining of C57BL/6 splenocytes with Anti-Mouse NK1-1 FITC (Product # 11-5941-82) and staining buffer (autofluorescence) (left) or 0.25 μ g of Anti-Mouse CD49b (Integrin alpha 2) PE-Cyanine7 (right). Total viable cells were used for analysis.

View more figures on thermofisher.com

□ 23 References

Flow Cytometry (21)

Journal for immunotherapy of cancer

Ultrasound combined with nanobubbles promotes systemic anticancer immunity and augments anti-PD1 efficacy.

"25-5971-82 was used in Flow Cytometry to provide a promising strategy for sensitizing poorly immunogenic solid tumors to immunotherapy in the clinic."

Authors: Hu J,He J,Wang Y,Zhao Y,Fang K,Dong Y,Chen Y,Zhang Y,Zhang C,Wang H,Tan J,Wang J,Zi R,Liu C,Liang H,Guo Y,Ou J

Year 2022

Species Mouse

iScience

Immunogenicity and protective efficacy of an intranasal live-attenuated vaccine against SARS-CoV-2.

"25-5971-82 was used in Flow Cytometry to evaluate a Newcastle disease virus (NDV)-based vectored-vaccine in mice and hamsters for its immunogenicity, safety and protective efficacy against SARS-CoV-2."

Authors: Park JG,Oladunni FS,Rohaim MA,Whittingham-Dowd J,Tollitt J,Hodges MDJ,Fathallah N,Assas MB,Alhazmi W,Almilaibary A,Iqbal M,Chang P,Escalona R,Shivanna V,Torrelles JB,Worthington JJ,Jackson-Jones LH,Martinez-Sobrido L,Munir M

Year 2021

Species Mouse

View more Flow references on thermofisher.com

Functional Assay (1)

Journal of leukocyte biology

Phenotypic differences between Th1 and Th17 cells and negative regulation of Th1 cell differentiation by IL-17.

"25-5971 was used in Functional assays to compare the cell surface marker expression profiles of Th1 and Th17 cells."

Authors: Nakae S.Iwakura Y.Suto H.Galli SJ

Year 2007

Species Mouse

Miscellaneous PubMed (1)

Journal of immunology (Baltimore, Md.: 1950)

Chronic helminth infection promotes immune regulation in vivo through dominance of CD11cloCD103- dendritic cells.

"25-5971 was used in Magnetic cell separation to identify that the preferential expansion of a novel population of CD11c (lo) non-plasmacytoid DCs is associated with the pro-regulatory environment of chronic intestinal helminth infection."

 $\label{lem:conditional} Authors: Smith KA, Hochweller K, H\"{a}mmerling GJ, Boon L, MacDonald AS, Maizels RM$

Year 2011

Species Mouse

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 of source in applications 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, 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 important to the provided the provided provided in the Sulpir of Sulpir o