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.

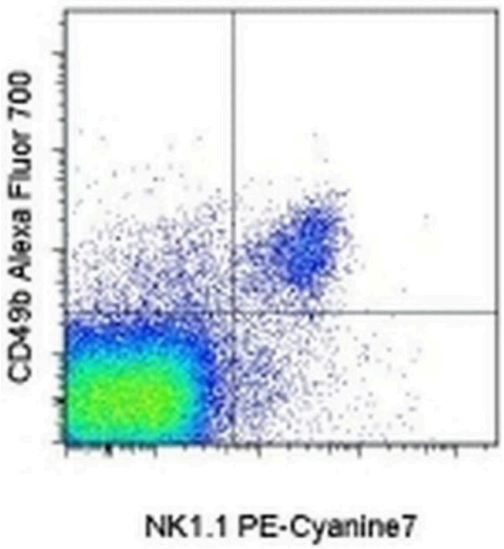
Applications Tested: This DX5 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 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.

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6 References

Immunohistochemistry (2)

Oncology reports

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

"Published figure using CD49b (Integrin alpha 2) monoclonal antibody (Product # 56-5971-82) in Immunohistochemistry"

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

Breast cancer research : BCR

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

"Published figure using CD49b (Integrin alpha 2) monoclonal antibody (Product # 56-5971-82) in Immunofluorescence"

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

Year
2014

Flow Cytometry (4)

Journal of neuroinflammation

Brain endothelial CXCL12 attracts protective natural killer cells during ischemic stroke.

"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."

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

Year
2023

Species
Mouse

The Journal of experimental medicine

Stage-specific action of Runx1 and GATA3 controls silencing of PU.1 expression in mouse pro-T cells.

"Published figure using CD49b (Integrin alpha 2) monoclonal antibody (Product # 56-5971-82) in Flow Cytometry"

Authors: Hosokawa H,Koizumi M,Masuhara K,Romero-Wolf M,Tanaka T,Nakayama T,Rothenberg EV

Year
2021

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