

CD49b (Integrin alpha 2) Monoclonal Antibody (DX5), APC-eFluor 780, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotope	Rat / IgM, kappa
Class	Monoclonal
Type	Antibody
Clone	DX5
Conjugate	APC-eFluor® 780
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_11218895

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	0.25 µg/test	3 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 C57BL/6 mouse spleen cells. This can be used at less than or equal to 0.25 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.

APC-eFluor 780 emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochoime.

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

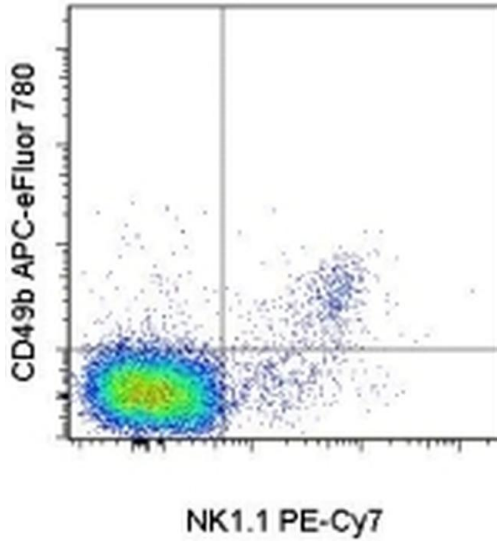
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix /Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency

/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 633-647 nm; Emission: 780 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD49b (Integrin alpha 2) Monoclonal Antibody (DX5), APC-eFluor 780, eBioscience™



CD49b (Integrin alpha 2) Antibody (47-5971-82) in Flow

Staining of C57Bl/6 splenocytes with Anti-Mouse NK1-1 PE-Cy7 (Product # 25-5941-82) and 0.125 µg of Anti-Mouse CD49b (Integrin alpha 2) APC-eFluor® 780. Cells in the lymphocyte gate were used for analysis.

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Flow Cytometry (3)

Nature communications

Loss of HIF-1 in natural killer cells inhibits tumour growth by stimulating non-productive angiogenesis.

"47-5971 was used in Flow cytometry/Cell sorting to investigate the mechanisms by which loss of HIF1 in natural killer cells inhibits tumour growth."

Authors: Krzywinska E, Kantari-Mimoun C, Kerdiles Y, Sobecki M, Isagawa T, Gotthardt D, Castells M, Haubold J, Millien C, Viel T, Tavitian B, Takeda N, Fandrey J, Vivier E, Sexl V, Stockmann C

Species
Mouse

Dilution
Not Cited

Year
2017

PloS one

Differential regulation of C5a receptor 1 in innate immune cells during the allergic asthma effector phase.

"47-5971 was used in Flow cytometry/Cell sorting to demonstrate a complex regulation pattern of C5aR1 in the airways, lung tissue and lymph nodes of mice."

Authors: Ender F, Wiese AV, Schmutte I, Sun J, Vollbrandt T, König P, Laumonier Y, Köhl J

Species
Mouse

Dilution
Not Cited

Year
2017

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