CD335 (NKp46) Monoclonal Antibody (29A1.4), PerCP-eFluor™ 710, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PerCP-eFluor™ 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	29A1.4
Conjugate	PerCP-eFluor™ 710
Excitation/Emission Max	482/708 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_1834441

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	22 Publications

Product Specific Information

Description: The monoclonal antibody 29A1.4 recognizes mouse NKp46, also known as CD335. CD335, a member of the natural cytotoxicity receptor (NCR) family, is a glycoprotein with 2 Ig-like domains and a short cytoplasmic tail. Expression of CD335 is uniquely found on NK cells (including immature NK cells, defined as DX5- CD3-, and thereby allowing discrimination between NKT cells and NK cells (NKp46+, CD3-). Furthermore, unlike many of the NK markers which also stain NKT cells, staining with 29A1.4 is not strain specific. Staining has been shown on C57Bl/6, SJL, CBA/CA and BALB/C strains. NKp46 has been shown to play a role in NK cell-mediated lysis of several tumor cells and pathogen-infected cell lines.

The 29A1.4 monoclonal antibody has been shown to activate NK cells in vitro. The 29A1.4 monoclonal antibody does not deplete NK cells in vivo.

Applications Reported: This 29A1.4 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 29A1.4 antibody has been tested by flow cytometric analysis of 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochome. For a

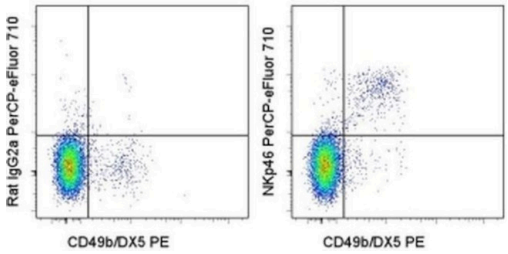
filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor® 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD335 (NKp46) Monoclonal Antibody (29A1.4), PerCP-eFluor™ 710, eBioscience™



CD335 (NKp46) Antibody (46-3351-82) in Flow
Staining of BALB/c splenocytes with Anti-Mouse CD49b (Integrin alpha 2) PE (Product # 12-5971-82) and 0.125 µg of Rat IgG2a K Isotype Control PerCP-eFluor® 710 (Product # 46-4321-82) (left) or 0.125 µg of Anti-Mouse CD335 (NKp46) PerCP-eFluor® 710 (right). Cells in the lymphocyte gate were used for analysis.

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22 References

Flow Cytometry (22)

eLife

The transcription factor Bach2 negatively regulates murine natural killer cell maturation and function.

"46-3351-82 was used in Flow cytometry/Cell sorting to investigate the role of Bach2 in natural killer (NK) cell development, revealing that Bach2 expression peaked in immature CD27+CD11b+ cells, and its deficiency led to increased proportions of terminally differentiated NK cells with enhanced granzyme and cytokine production, as well as improved NK cell-mediated control of tumor metastasis."

Authors: Li S,Bern MD,Miao B,Fan C,Xing X,Inoue T,Piersma SJ,Wang T,Colonna M,Kurosaki T,Yokoyama WM

Year
2022

Species
Mouse

Dilution
1:100

International journal of molecular sciences

Interferon Lambda Regulates Cellular and Humoral Immunity in Pristane-Induced Lupus.

"Published figure using CD335 (NKp46) monoclonal antibody (Product # 46-3351-82) in Flow Cytometry"

Authors: Aschman T,Schaffer S,Biniaris Georgallis SI,Triantafyllopoulou A,Staeheli P,Voll RE

Year
2021

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