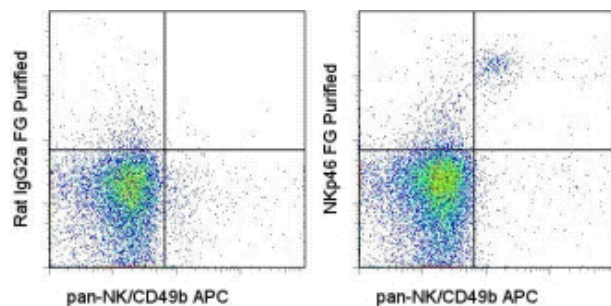


Anti-Mouse CD335 (NKp46) Functional Grade Purified

Catalog Number: 16-3351

Also Known As: NCR1, Ly-94

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of C57Bl/6 splenocytes with 0.5 ug of Rat IgG2a Isotype Control Purified (cat. 14-4321) (left) or 0.5 ug of Anti-Mouse CD335 (NKp46) Functional Grade Purified (right) followed by Anti-Rat IgG Biotin (cat. 13-4813), Streptavidin PE (cat. 12-4317), and finally Anti-Mouse CD49b (Integrin alpha 2) APC (cat. 17-5971). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD335 (NKp46) Functional Grade Purified

REF **Catalog Number:** 16-3351

Clone: 29A1.4

Concentration: 1 mg/mL

Host/Isotype: Rat IgG2a, kappa

Handling Conditions: Use in sterile environment.

Endotoxin Level: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

Formulation: aqueous buffer, no sodium azide



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial

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 splenocytes. This can be used at less than or equal to 1 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.

References

Ota N, Wong K, Valdez PA, Zheng Y, Crellin NK, Diehl L, Ouyang W. IL-22 bridges the lymphotoxin pathway with the maintenance of colonic lymphoid structures during infection with *Citrobacter rodentium*. *Nat Immunol.* 2011 Aug 28 doi: 10.1038/ni.2089. (29A1.4, FC, PubMed)

Walzer T, Chiossone L, Chaix J, Calver A, Carozzo C, Garrigue-Antar L, Jacques Y, Baratin M, Tomasello E, Vivier E. Natural killer cell trafficking *in vivo* requires a dedicated sphingosine 1-phosphate receptor. *Nat Immunol.* 2007 Dec;8(12):1337-44. (29A1.4, FC PubMed)

Walzer T, Bléry M, Chaix J, Fuseri N, Chasson L, Robbins SH, Jaeger S, André P, Gauthier L, Daniel L, Chemin K, Morel Y, Dalod M, Imbert J, Pierres M, Moretta A, Romagné F, Vivier E. Identification, activation, and selective *in vivo* ablation of mouse NK cells via

NKp46. Proc Natl Acad Sci U S A. 2007 Feb 27;104(9):3384-9. (29A1.4, FC, FA PubMed)

Related Products

11-4811 Anti-Rat IgG FITC

16-4321 Rat IgG2a K Isotype Control Functional Grade Purified (eBR2a)

17-5971 Anti-Mouse CD49b (Integrin alpha 2) APC (DX5)

Not for further distribution without written consent.

Copyright © 2000-2010 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.eBioscience.com • info@eBioscience.com