

Datasheet: MCA2287F

Description:	RAT ANTI MOUSE NKG2A/C/E:FITC
Specificity:	NKG2A/C/E
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	20d5
Isotype:	IgG2a
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat - 1/5

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Mouse						
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid						
Max Ex/Em	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>FITC</td> <td>490</td> <td>525</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	FITC	490	525
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
FITC	490	525					
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin						
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml						

Immunogen	CHO transfected cells expressing the B6 allele of NKG2A.
RRID	AB_567168
Fusion Partners	Spleen cells from immunised Lewis rats were fused with cells of the mouse P3X63-Ag8.653 myeloma cell line.
Specificity	<p>Rat anti Mouse NKG2A/C/E antibody, clone 20d5 recognizes murine NKG2A, NKG2C and NKG2E, which are isoforms of the NKG2 lectin-like family. In mice, NKG2 subunits associate with CD94 to form heterodimers at the surface of natural killer (NK) cells. The CD94/NKG2 heterodimer is the receptor for a non-classical MHC class I ligand, which is Qa-1 in the mouse (Colmenero et al. 2007).</p> <p>Rat anti Mouse NKG2A/C/E, clone 20d5 is reported to block ligand binding to the receptor (Vance et al. 1999)</p>
Flow Cytometry	<p>Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.</p> <p>The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors. This may be reduced by using SeroBlock FcR (BUF041A/B).</p>
References	<ol style="list-style-type: none"> Vance, R.E. <i>et al.</i> (1999) Recognition of the class Ib molecule Qa-1(b) by putative activating receptors CD94/NKG2C and CD94/NKG2E on mouse natural killer cells. J Exp Med. 190 (12): 1801-12. Vance, R.E. <i>et al.</i> (2002) Implications of CD94 deficiency and monoallelic NKG2A expression for natural killer cell development and repertoire formation. Proc Natl Acad Sci U S A. 99 (2): 868-73. Kawamura, H. <i>et al.</i> (2005) Amelioration of acute graft-versus-host disease by NKG2A engagement on donor T cells. Eur J Immunol. 35 (8): 2358-66. Yin, Y. <i>et al.</i> (2013) Phosphatidylserine-targeting antibody induces M1 macrophage polarization and promotes myeloid-derived suppressor cell differentiation. Cancer Immunol Res. 1 (4): 256-68. Colmenero, P. <i>et al.</i> (2007) Qa-1(b)-dependent modulation of dendritic cell and NK cell cross-talk in vivo. J Immunol. 179: 4608-15.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf

Related Products

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:FITC \(MCA1212F\)](#)

Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

From March 15, 2021, we will no longer supply printed datasheets with our products.

Look out for updates on how to access your digital version at bio-rad-antibodies.com

'M374505:201110'

Printed on 09 Feb 2021