

Datasheet: MCA2288GA

Description:	RAT ANTI MOUSE CD94
Specificity:	CD94
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	18d3
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	▪			1/50 - 1/200
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

Where this product 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 product for use in their own system using appropriate negative/positive controls.

Target Species	Mouse
Product Form	Purified IgG - liquid
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 (NaN ₃)
Carrier Free	Yes

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	CHO cells transfected with B6 allele of CD94.
External Database Links	<p>UniProt: O54707 Related reagents</p> <p>Entrez Gene: 16643 Klr1 Related reagents</p>
Synonyms	Cd94
RRID	AB_566930
Fusion Partners	Spleen cells from immunized Lewis rats were fused with cells of the mouse P3X63-Ag8.653 myeloma cell line.
Specificity	<p>Rat anti Mouse CD94 antibody, clone 18d3 recognizes murine CD94, a ~70 kDa cell surface glycoprotein expressed primarily by mouse natural killer (NK) cells. The murine CD94 molecule forms heterodimers with NKG2A, C or E subunits to form the CD94/NKG2 receptor.</p> <p>In mice the CD94/NKG2 receptor recognizes Qa-1^b, a non-classical MHC class 1 molecule. CD94/NKG2 receptors may play an important role in self-tolerance of NK cells during fetal and neonatal life.</p> <p>N.B. Recent reports suggest that DBA/2J mice do not express cell surface CD94/NKG2A receptors (Vance et al. 2002).</p>
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl
References	<ol style="list-style-type: none"> 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. 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. Chattopadhyay, S. <i>et al.</i> (2008) Implication for the CD94/NKG2A-Qa-1 system in the generation and function of ocular-induced splenic CD8+ regulatory T cells. Int Immunol. 20 (4): 509-16. 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. Fraser, K.P. <i>et al.</i> (2002) NK cells developing in vitro from fetal mouse progenitors express at least one member of the Ly49 family that is acquired in a time-dependent and stochastic manner independently of CD94 and NKG2. Eur J Immunol. 32 (3): 868-78.
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for

short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2288GA 10040
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Goat Anti Rat IgG (STAR72...)	HRP
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight@550 , DyLight@650 , DyLight@800
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR16...)	DyLight@800

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL \(MCA1212\)](#)

North & South America	Tel: +1 800 265 7376 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
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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