

Datasheet: MCA5938GA

Description:	RAT ANTI MOUSE CD335
Specificity:	CD335
Other names:	NKp46
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	29A1.4
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	▪			1/10 - 1/20
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Western Blotting			▪	
Immunofluorescence			▪	
Functional Assays (1)			▪	

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.

(1) **Bio-Rad recommends the use of [MCA5938EL](#) for functional assays.**

Target Species	Mouse
Product Form	Purified IgG - liquid
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml

Immunogen	NKP46-IgG1 Fc fusion protein.
External Database Links	<p>UniProt: Q8C567 Related reagents</p> <p>Entrez Gene: 17086 Ncr1 Related reagents</p>
Synonyms	Ly94
Specificity	<p>Rat anti Mouse CD335 antibody, clone 29A1.4 recognizes natural killer cell p46-related protein (NKp46), otherwise known as CD335, which is uniquely expressed by resting and activated natural killer (NK) cells, but no expression of CD335 has been detected on B cells, T cells, monocytes or granulocytes.</p> <p>It is a major NK cell lysis receptor for autologous pathogen-infected and tumor target cells during natural cytotoxicity responses. Ligands of CD335 include viral hemagglutinins (HAs) and heparan sulfate proteoglycans (HSPGs) on the surface of tumor cells.</p> <p>Staining with Rat anti mouse CD335 (29A1.4) is not strain specific and the antibody has been used to stain C57BL/6, SJL, CBA/CA and BALB/c strains. Clone 29A1.4 also activates NK cells <i>in vitro</i>. It does not deplete NK cells <i>in vivo</i>.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.
References	<ol style="list-style-type: none"> Walzer, T. <i>et al.</i> (2007) Identification, activation, and selective <i>in vivo</i> ablation of mouse NK cells via NKp46. Proc Natl Acad Sci U S A. 104: 3384-9. Walzer, T. <i>et al.</i> (2007) Natural killer cell trafficking <i>in vivo</i> requires a dedicated sphingosine 1-phosphate receptor. Nat Immunol. 8 (12): 1337-44. Luci, C. <i>et al.</i> (2009) Influence of the transcription factor RORgammat on the development of NKp46+ cell populations in gut and skin. Nat Immunol. 10: 75-82. Chiossone, L. <i>et al.</i> (2009) Maturation of mouse NK cells is a 4-stage developmental program. Blood. 113: 5488-96. Ota, N. <i>et al.</i> (2011) IL-22 bridges the lymphotoxin pathway with the maintenance of colonic lymphoid structures during infection with <i>Citrobacter rodentium</i>. Nat Immunol. 12 (10): 941-8.
Storage	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
Guarantee	12 months from date of despatch
Health And Safety	Material Safety Datasheet documentation #10040 available at:

Information <https://www.bio-rad-antibodies.com/SDS/MCA5938GA>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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

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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