

## Datasheet: MCA5938GA

**BATCH NUMBER 149932**

<b>Description:</b>	RAT ANTI MOUSE CD335
<b>Specificity:</b>	CD335
<b>Other names:</b>	NKp46
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	29A1.4
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	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](http://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.**

<b>Target Species</b>	Mouse
<b>Product Form</b>	Purified IgG - liquid
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )

<b>Approx. Protein Concentrations</b>	IgG concentration 0.5 mg/ml
<b>Immunogen</b>	NKP46-IgG1 Fc fusion protein.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q8C567</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">17086</a>    Ncr1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	Ly94
<b>Specificity</b>	<p><b>Rat anti Mouse CD335 antibody, clone 29A1.4</b> 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>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>Walzer, T. <i>et al.</i> (2007) Identification, activation, and selective <i>in vivo</i> ablation of mouse NK cells via NKp46. <a href="#">Proc Natl Acad Sci U S A. 104: 3384-9.</a></li> <li>Walzer, T. <i>et al.</i> (2007) Natural killer cell trafficking <i>in vivo</i> requires a dedicated sphingosine 1-phosphate receptor. <a href="#">Nat Immunol. 8 (12): 1337-44.</a></li> <li>Luci, C. <i>et al.</i> (2009) Influence of the transcription factor RORgammat on the development of NKp46+ cell populations in gut and skin. <a href="#">Nat Immunol. 10: 75-82.</a></li> <li>Chiossone, L. <i>et al.</i> (2009) Maturation of mouse NK cells is a 4-stage developmental program. <a href="#">Blood. 113: 5488-96.</a></li> </ol>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10040 available at:  <a href="https://www.bio-rad-antibodies.com/SDS/MCA5938GA">https://www.bio-rad-antibodies.com/SDS/MCA5938GA</a>  10040</p>

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	<a href="#">DyLight@800</a>
Rabbit Anti Rat IgG (STAR17...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR72...)	<a href="#">HRP</a>
Goat Anti Rat IgG (STAR69...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR73...)	<a href="#">RPE</a>
Rabbit Anti Rat IgG (STAR21...)	<a href="#">HRP</a>
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	<a href="#">DyLight@550</a> , <a href="#">DyLight@650</a> , <a href="#">DyLight@800</a>
Goat Anti Rat IgG (STAR131...)	<a href="#">Alk. Phos.</a> , <a href="#">Biotin</a>

### Recommended Negative Controls

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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://bio-rad-antibodies.com/datasheets)

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