

## Datasheet: MCA5938F

<b>Description:</b>	RAT ANTI MOUSE CD335:FITC
<b>Specificity:</b>	CD335
<b>Other names:</b>	NKp46
<b>Format:</b>	FITC
<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	▪			1/5 - 1/10
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 conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid						
<b>Max Ex/Em</b>	<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					
<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 0.5mg/ml						
<b>Immunogen</b>	NKP46-IgG1 Fc fusion protein.						
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">Q8C567</a> <a href="#">Related reagents</a>						

**Entrez Gene:**

[17086](#) Ncr1 [Related reagents](#)

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**Synonyms**

Ly94

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**Specificity**

**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.

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.

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 *in vitro*. It does not deplete NK cells *in vivo*.

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**Flow Cytometry**

Use 10ul of the suggested working dilution to label  $1 \times 10^6$  cells in 100ul.

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**References**

1. Walzer, T. *et al.* (2007) Identification, activation, and selective *in vivo* ablation of mouse NK cells via NKp46. [Proc Natl Acad Sci U S A. 104: 3384-9.](#)
2. Walzer, T. *et al.* (2007) Natural killer cell trafficking *in vivo* requires a dedicated sphingosine 1-phosphate receptor. [Nat Immunol. 8 \(12\): 1337-44.](#)
3. Luci, C. *et al.* (2009) Influence of the transcription factor RORgammat on the development of NKp46+ cell populations in gut and skin. [Nat Immunol. 10: 75-82.](#)
4. Chiossone, L. *et al.* (2009) Maturation of mouse NK cells is a 4-stage developmental program. [Blood. 113: 5488-96.](#)

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**Storage**

Store at +4°C. DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee**

Guaranteed for 12 months from the date of despatch or until the date of expiry, whichever comes first. Please see label for expiry date.

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**Health And Safety Information**

Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Negative Controls

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

### Recommended Useful Reagents

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

MOUSE SEROBLOCK FcR (BUF041B)

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