

# Datasheet: MCA4646GA

**BATCH NUMBER 151722**

<b>Description:</b>	MOUSE ANTI HUMAN CD335
<b>Specificity:</b>	CD335
<b>Other names:</b>	NKp46
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	9E2
<b>Isotype:</b>	IgG1
<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	▪			1/25 - 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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	CD335-Fc fusion protein
External Database Links	<p><b>UniProt:</b>  <a href="#">O76036</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">9437</a>    NCR1    <a href="#">Related reagents</a></p>
Synonyms	LY94
RRID	AB_1720030
Specificity	<p><b>Mouse anti Human CD335 antibody, clone 9E2</b> specifically recognizes human NK (natural killer) cell-specific marker CD335, otherwise known as NKp46, a 46kDa type I transmembrane glycoprotein, and the first identified member of the natural cytotoxicity receptor (NCR) family.</p> <p>CD335 is uniquely expressed by all resting and activated NK cells, and considered to be the major NK cell lysis receptor for autologous pathogen-infected and tumour target cells, during natural cytotoxicity responses. Ligands of CD335 include viral haemagglutinins (HAs), and heparan sulphate proteoglycans (HSPGs) on the surface of tumour cells.</p> <p>Mouse anti Human CD335 antibody, clone 9E2 mediates re-directed NK cell cytotoxicity (<a href="#">Yusa <i>et al.</i> 2002</a>) and (<a href="#">Chen <i>et al.</i> 2007</a>).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul.
References	<ol style="list-style-type: none"> <li>1. Chklovskaya, E. <i>et al.</i> (2004) Reconstitution of dendritic and natural killer-cell subsets after allogeneic stem cell transplantation: effects of endogenous flt3 ligand. <a href="#">Blood. 103 (10): 3860-8.</a></li> <li>2. Yusa, S. <i>et al.</i> (2002) SHP-1- and phosphotyrosine-independent inhibitory signaling by a killer cell Ig-like receptor cytoplasmic domain in human NK cells. <a href="#">J Immunol. 168 (10): 5047-57.</a></li> <li>3. Chen, Y. <i>et al.</i> (2007) Prostaglandin D2 suppresses human NK cell function via signaling through D prostanoid receptor. <a href="#">J Immunol. 179 (5): 2766-73.</a></li> <li>4. Rutigliano, H.M. <i>et al.</i> (2016) Trophoblast Major Histocompatibility Complex Class I Expression Is Associated with Immune-Mediated Rejection of Bovine Fetuses Produced by Cloning. <a href="#">Biol Reprod. 95 (2): 39.</a></li> </ol>
Storage	<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</p>

denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA4646GA">https://www.bio-rad-antibodies.com/SDS/MCA4646GA</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)  
'M367812:200529'

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