

## Datasheet: MCA4646SBV535

**BATCH NUMBER 64717162**

<b>Description:</b>	MOUSE ANTI HUMAN CD335:StarBright Violet 535
<b>Specificity:</b>	CD335
<b>Other names:</b>	NKp46
<b>Format:</b>	StarBright Violet 535
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	9E2
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 TESTS/0.5ml

### 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	▪			Neat

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** Human

**Product Form** Purified IgG conjugated to StarBright Violet 535 - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	StarBright Violet 535	402	540

**Preparation** Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

**Buffer Solution** Phosphate buffered saline

**Preservative** 0.09% Sodium Azide (NaN<sub>3</sub>)  
**Stabilisers** 1% Bovine Serum Albumin  
 0.1% Pluronic F68  
 0.1% PEG 3350

0.05% Tween 20

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<b>Approx. Protein Concentrations</b>	For information on the concentration of our StarBright Dye conjugated reagents please visit our <a href="#">FAQ</a> page.
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<b>Immunogen</b>	CD335-Fc fusion protein
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<b>External Database Links</b>	<b>UniProt:</b> <a href="#">O76036</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">9437</a> NCR1 <a href="#">Related reagents</a>
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<b>Synonyms</b>	LY94
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<b>Specificity</b>	<p><b>Mouse anti Human CD335 antibody, clone 9E2</b> 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 et al. 2002</a>, <a href="#">Chen et al. 2007</a>).</p>
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<b>Flow Cytometry</b>	Use 5µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100µl. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.
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<b>References</b>	<ol style="list-style-type: none"><li>1. 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>2. Chklovskaja, 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>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></ol>
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<b>Storage</b>	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted.
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<b>Guarantee</b>	12 months from date of despatch
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<b>Acknowledgements</b>	This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts
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**Health And Safety Information**      Material Safety Datasheet documentation #20471 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA4646SBV535>

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**Regulatory**                      For research purposes only

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## Related Products

### Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

**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)  
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