

# Datasheet: MCA1365SBV515

**BATCH NUMBER 64708948**

<b>Description:</b>	RAT ANTI MOUSE CD117:StarBright Violet 515
<b>Specificity:</b>	CD117
<b>Other names:</b>	C-KIT, SCF-R
<b>Format:</b>	StarBright Violet 515
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	2B8
<b>Isotype:</b>	IgG2b
<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.

<b>Target Species</b>	Mouse		
<b>Product Form</b>	Purified IgG conjugated to StarBright Violet 515 - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	StarBright Violet 515	402	516
<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</b>	0.09% Sodium Azide (NaN <sub>3</sub> )		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
	0.1% Pluronic F68		
	0.1% PEG 3350		

<b>Approx. Protein Concentrations</b>	For information on the concentration of our StarBright Dye conjugated reagents please visit our <a href="#">FAQ</a> page.
<b>Immunogen</b>	IL-3 dependent mast cells.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P05532</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">16590</a>    Kit    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	SI
<b>Fusion Partners</b>	Spleen cells from immunised Wistar rats were fused with cells of the Fox-NY mouse myeloma cell line.
<b>Specificity</b>	<p><b>Rat anti Mouse CD117 antibody, clone 2B8</b> recognizes mouse CD117, a ~150 kDa cell surface molecule otherwise known as the Kit, or c-kit, receptor.</p> <p>Rat anti Mouse CD117 antibody, clone 2B8 recognizes an epitope within the extracellular region of CD117. In mice, CD117 is predominantly expressed on multipotent haematopoietic stem cells from the adult bone marrow and foetal liver.</p>
<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.
<b>Further Reading</b>	<ol style="list-style-type: none"> <li>Manova, K. <i>et al.</i> (1992) c-kit receptor and ligand expression in postnatal development of the mouse cerebellum suggests a function for c-kit in inhibitory interneurons. <a href="#">J Neurosci. 12 (12): 4663-76.</a></li> <li>Maeda, H. <i>et al.</i> (1992) Requirement of c-kit for development of intestinal pacemaker system. <a href="#">Development. 116 (2): 369-75.</a></li> <li>Takagi, M. <i>et al.</i> (1992) Stimulation of mouse connective tissue-type mast cells by hemopoietic stem cell factor, a ligand for the c-kit receptor. <a href="#">J Immunol. 148 (11): 3446-53.</a></li> <li>de Vries, P. <i>et al.</i> (1992) Thymus reconstitution by c-kit-expressing hematopoietic stem cells purified from adult mouse bone marrow. <a href="#">J Exp Med. 176 (6): 1503-9.</a></li> <li>Fleming WH <i>et al.</i> (1993) Steel factor influences the distribution and activity of murine hematopoietic stem cells <i>in vivo</i>. <a href="#">Proc Natl Acad Sci U S A. 90 (8): 3760-4.</a></li> <li>Rico-Vargas, S.A. <i>et al.</i> (1994) c-kit expression by B cell precursors in mouse bone marrow. Stimulation of B cell genesis by <i>in vivo</i> treatment with anti-c-kit antibody. <a href="#">J Immunol. 152 (6): 2845-52.</a></li> </ol>
<b>Storage</b>	<p>This product is shipped at ambient temperature.</p> <p>Store at +4°C. DO NOT FREEZE.</p> <p>This product should be stored undiluted.</p>
<b>Guarantee</b>	12 months from date of despatch

**Acknowledgements** 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 #20438 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1365SBV515>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Useful Reagents

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

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

**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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**Printed on 23 Jan 2026**

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