

## Datasheet: MCA1365A647T

<b>Description:</b>	RAT ANTI MOUSE CD117:Alexa Fluor® 647
<b>Specificity:</b>	CD117
<b>Other names:</b>	C-KIT, SCF-R
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	2B8
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	25 TESTS/0.25ml

### 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 - 1/10

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 Alexa Fluor® 647- liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	Alexa Fluor®647	650	665
<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		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05 mg/ml		

<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>RRID</b>	AB_1100583
<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>	<p>Use 10µl of the suggested working dilution to label 10<sup>6</sup> cells in 100µl.</p> <p>The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (<a href="#">BUF041A/BUF041B</a>).</p>
<b>Further Reading</b>	<ol style="list-style-type: none"> <li>1. 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>2. 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>3. 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>4. 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>5. 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>6. 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. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be</p>

protected from light.

---

**Guarantee** 12 months from date of despatch

---

**Acknowledgements** This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or [outlicensing@thermofisher.com](mailto:outlicensing@thermofisher.com)

---

**Health And Safety Information** Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1365A647T> 10041

---

**Regulatory** For research purposes only

---

<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>
----------------------------------	---	------------------	---	---------------	---

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
'M409370:221018'

**Printed on 03 Oct 2023**

---

© 2023 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)