

Datasheet: MCA1365G

BATCH NUMBER 148119

Description:	RAT ANTI MOUSE CD117
Specificity:	CD117
Other names:	C-KIT, SCF-R
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	2B8
Isotype:	IgG2b
Quantity:	0.25 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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/50 - 1/200
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Target Species	Mouse
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	IL-3 dependent mast cells.
External Database Links	<p>UniProt: P05532 Related reagents</p> <p>Entrez Gene: 16590 Kit Related reagents</p>
Synonyms	SI
RRID	AB_844471
Fusion Partners	Spleen cells from immunised Wistar rats were fused with cells of the Fox-NY mouse myeloma cell line.
Specificity	<p>Rat anti Mouse CD117 antibody, clone 2B8 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>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
Further Reading	<ol style="list-style-type: none"> 1. Fleming WH <i>et al.</i> (1993) Steel factor influences the distribution and activity of murine hematopoietic stem cells <i>in vivo</i>. Proc Natl Acad Sci U S A. 90 (8): 3760-4. 2. 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 in vivo treatment with anti-c-kit antibody. J Immunol. 152 (6): 2845-52. 3. 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. J Neurosci. 12 (12): 4663-76. 4. Maeda, H. <i>et al.</i> (1992) Requirement of c-kit for development of intestinal pacemaker system. Development. 116 (2): 369-75. 5. 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. J Immunol. 148 (11): 3446-53. 6. de Vries, P. <i>et al.</i> (1992) Thymus reconstitution by c-kit-expressing hematopoietic stem cells purified from adult mouse bone marrow. J Exp Med. 176 (6): 1503-9.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p>

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1365G 10040
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	DyLight@800
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight@550 , DyLight@650 , DyLight@800
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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)
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