

Datasheet: MCA1365SBV570

BATCH NUMBER 64762048

Description:	RAT ANTI MOUSE CD117:StarBright Violet 570
Specificity:	CD117
Other names:	C-KIT, SCF-R
Format:	StarBright Violet 570
Product Type:	Monoclonal Antibody
Clone:	2B8
Isotype:	IgG2b
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry (1)	▪			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.

(1)Staining at lower temperatures generally requires longer incubation to reach antibody binding equilibrium, and this effect is more pronounced for StarBright Dyes due to their larger size. For optimum staining, Bio-Rad recommends incubating samples either overnight at 4°C or 1 hour at room temperature.

Target Species	Mouse		
Product Form	Purified IgG conjugated to StarBright Violet 570 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	StarBright Violet 570	404	571
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		

Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin 0.1% Pluronic F68 0.1% PEG 3350 0.05% Tween 20
Approx. Protein Concentrations	For information on the concentration of our StarBright Dye conjugated reagents please visit our FAQ page.
Immunogen	IL-3 dependent mast cells.
External Database Links	UniProt: P05532 Related reagents Entrez Gene: 16590 Kit Related reagents
Synonyms	SI
Fusion Partners	Spleen cells from immunised Wistar rats were fused with cells of the Fox-NY mouse myeloma cell line.
Specificity	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. 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.
Flow Cytometry	Use 5µl of the suggested working dilution to label 0.5x10 ⁶ cells in 100µl. Best practices suggest a 5 min centrifugation at 6,000g prior to sample application.
Further Reading	- 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. - Maeda, H. <i>et al.</i> (1992) Requirement of c-kit for development of intestinal pacemaker system. Development. 116 (2): 369-75. - 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. - 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. - 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. - 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. J Immunol. 152 (6): 2845-52.

Storage	This product is shipped at ambient temperature. Store at +4°C. DO NOT FREEZE. This product should be stored undiluted.
Guarantee	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
Health And Safety Information	Material Safety Datasheet documentation #20471 available at: https://www.bio-rad-antibodies.com/SDS/MCA1365SBV570
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

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

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

Product inquiries: 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
'M451606:260710'

Printed on 27 Aug 2026