

Datasheet: MCA1365PE

Description:	RAT ANTI MOUSE CD117:RPE
Specificity:	CD117
Other names:	C-KIT, SCF-R
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	2B8
Isotype:	IgG2b
Quantity:	100 TESTS

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	■			Neat

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 conjugated to R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1 ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
Preparation	Purified IgG prepared by affinity chromatography on Protein A.		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide		
Stabilisers	1%	Bovine Serum Albumin	
	5%	Sucrose	
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 5ul of the suggested working dilution to label 10⁶ cells in 100ul. 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 (BUF041A/B).
References	- Ikuta, K. & Weissman, I.L. (1992) Evidence that hematopoietic stem cells express mouse c-kit but do not depend on steel factor for their generation. Proc Natl Acad Sci U S A. 89 (4): 1502-6. - 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 in vivo treatment with anti-c-kit antibody. J Immunol. 152 (6): 2845-52. - 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. - Yoshinaga, K. <i>et al.</i> (1991) Role of c-kit in mouse spermatogenesis: identification of spermatogonia as a specific site of c-kit expression and function. Development. 113 (2): 689-99.
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	12 months from date of reconstitution.
Health And Safety Information	Material Safety Datasheet documentation #10075 available at: 10075: https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

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

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

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'M300604:170106'

Printed on 05 May 2018

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