

Datasheet: MCA1365SBUV445

BATCH NUMBER 100006497

Description:	RAT ANTI MOUSE CD117:StarBright UltraViolet 445
Specificity:	CD117
Other names:	C-KIT, SCF-R
Format:	StarBright UltraViolet 445
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	▪			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.

Target Species	Mouse		
Product Form	Purified IgG conjugated to StarBright UltraViolet 445 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	StarBright UltraViolet 445	347	440
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide (NaN ₃)		
Stabilisers	1% Bovine Serum Albumin 0.1% Pluronic F68		

0.1% PEG 3350

0.05% Tween 20

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 10^6 cells in 100ul. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.

Further Reading

1. Fleming WH *et al.* (1993) Steel factor influences the distribution and activity of murine hematopoietic stem cells *in vivo*. [Proc Natl Acad Sci U S A. 90 \(8\): 3760-4.](#)
 2. Rico-Vargas, S.A. *et al.* (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. *et al.* (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. *et al.* (1992) Requirement of c-kit for development of intestinal pacemaker system. [Development. 116 \(2\): 369-75.](#)
 5. Takagi, M. *et al.* (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. *et al.* (1992) Thymus reconstitution by c-kit-expressing hematopoietic stem cells purified from adult mouse bone marrow. [J Exp Med. 176 \(6\): 1503-9.](#)
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Storage

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/MCA1365SBUV445>
20471

Regulatory For research purposes only

Related Products

Recommended Useful Reagents

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

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

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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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