

Datasheet: MCA1365G

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**

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 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

References

1. 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.](#)
2. 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.](#)
3. 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.](#)
4. 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.](#)
5. Maeda, H. *et al.* (1992) Requirement of c-kit for development of intestinal pacemaker system. [Development. 116 \(2\): 369-75.](#)
6. 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.](#)
7. 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.](#)
8. Yoshinaga, K. *et al.* (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 or at -20°C if preferred.

This product should be stored undiluted.

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.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®549 , DyLight®649 , DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP

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