# Datasheet: MCA1365SBB675

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| **Description:** | RAT ANTI MOUSE CD117:StarBright Blue 675 |
| **Specificity:** | CD117 |
| **Other names:** | C-KIT, SCF-R |
| **Format:** | StarBright Blue 675 |
| **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 Blue 675 - liquid

**Max Ex/Em**

| Fluorophore | Excitation Max (nm) | Emission Max (nm) |
|---|---|---|
| StarBright Blue 675 | 476 | 675 |

**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

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|---|---|
| **Immunogen** | IL-3 dependent mast cells. |
| **External Database Links** | **UniProt:**<br><br>P05532      Related reagents<br><br>**Entrez Gene:**<br><br>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.<br><br>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 $10^6$ cells in 100μl. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application. |
| **Further Reading** | 1. 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.<br>2. Maeda, H. *et al.* (1992) Requirement of c-kit for development of intestinal pacemaker system. Development. 116 (2): 369-75.<br>3. 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.<br>4. 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.<br>5. 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.<br>6. 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. |
| **Storage** | Store at +4°C.<br>DO NOT FREEZE.<br>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/MCA1365SBB675 20471 |
|---|---|
| **Regulatory** | For research purposes only |

# Related Products

## Recommended Useful Reagents

[MOUSE SEROBLOCK FcR (BUF041A)](#)
[MOUSE SEROBLOCK FcR (BUF041B)](#)

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M409364:221018'

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