## Brilliant Violet 605<sup>™</sup> anti-mouse CD117 (c-Kit)

Catalog # / Size:	1129235 / 50 µg	
Clone:	2B8	CO11 (Clove 3B) British Britis
lsotype:	Rat IgG2b, к	
Immunogen:	Mouse bone marrow mast cells	
<b>Reactivity:</b>	Mouse	
Preparation:	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 605 <sup>™</sup> under optimal conditions. The solution is free of unconjugated Brilliant Violet 605 <sup>™</sup> and unconjugated antibody.	
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).	C57BL/6 mouse bone marrow cells were stained with CD11b FITC and CD117 (clone 2B8) Brilliant Violet 605 <sup>™</sup> (left) or rat IgG2b, κ Brilliant Violet 605 <sup>™</sup> isotype control (right). Data shown was gated on total cell population.
Concentration:	0.2 mg/ml	

## **Applications:**

Applications:	Flow Cytometry	
Recommended Usage:		
	Brilliant Violet 605 <sup>™</sup> excites at 405 nm and emits at 603 nm. The bandpass filter 610/20 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 605 <sup>™</sup> is a trademark of Sirigen Group Ltd.	
	This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.	
Application Notes:	Additional reported applications (for the relevant formats) include: immunoprecipitation <sup>1</sup> and immunohistochemistry of acetone fixed frozen sections <sup>2</sup> . The 2B8 antibody does not block c-Kit activity.	
Application References:	<ol> <li>Barclay A, et al. 1997. The Leukocyte Antigen FactsBook Academic Press.</li> <li>Galli SJ, et al. 1994. Adv. Immunol. 55:1.</li> <li>Ikuta K, et al. 1992. Annu. Rev. Immunol. 10:759.</li> <li>Besmer P, et al. 1986. Nature 320:415.</li> <li>Witte ON. 1990. Cell 63:5.</li> </ol>	

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com **Description:** CD117 is a 145 kD immunoglobulin superfamily member also known as c-Kit and stem cell factor receptor (SCFR). It is a transmembrane tyrosine-kinase receptor that binds the c-Kit ligand (also known as steel factor, stem cell factor, and mast cell growth factor). CD117 is expressed on hematopoietic stem cells (including multipotent hematopoietic stem cells, progenitors committed to myeloid and/or erythroid lineages, and T and B cell precursors), mast cells, and acute myeloid leukemia (AML) cells. CD117 interaction with its ligand is critical for the development of hematopoietic stem cells.

Antigen 1. Barclay A, et al. 1997. The Leukocyte Antigen FactsBook Academic Press.

- References: 2. Galli SJ, et al. 1994. Adv. Immunol. 55:1.
  - 3. Ikuta K, et al. 1992. Annu. Rev. Immunol. 10:759.
  - 4. Besmer P, et al. 1986. Nature 320:415.
  - 5. Witte ON. 1990. *Cell* 63:5.