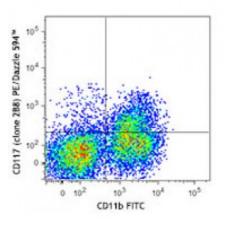
## **Product Data Sheet**

## PE/Dazzle<sup>™</sup> 594 anti-mouse CD117 (c-Kit)

Catalog # / Size:	1129165 / 25 μg 1129170 / 100 μg		
Clone:	2B8		
Isotype:	Rat IgG2b, к		
Immunogen:	Mouse bone marrow mast cells		
Reactivity:	Mouse		
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE/Dazzle <sup>™</sup> 594 under optimal conditions. The solution is free of unconjugated PE/Dazzle <sup>™</sup> 594 and unconjugated antibody.		
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.		
Concentration:	0.2		



C57BL/6 mouse bone marrow cells were stained with CD11b FITC and CD117 (clone 2B8) PE/Dazzle 594™ (top) or rat IgG2b, κ PE/Dazzle 594<sup>™</sup> isotype control (bottom). Data shown was gated on total cell population.

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## **Applications:**

Applications:		105		
Applications:	Flow Cytometry			
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is $\leq 0.25$ microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.	Rat 1gG2b, x PE/Dazzle 594	0 10 <sup>2</sup>	10 <sup>3</sup>
	* PE/Dazzle <sup>™</sup> 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.			in the second
Application Notes:	Additional reported applications (for the relevant formats) include: immunoprecipitation1 and immunohistochemistry of acetone fixed frozen sections2. The 2B8 antibody does not block c-Kit activity.			
Application References:	<ol> <li>Ikuta K, <i>et al.</i> 1992. <i>P. Natl. Acad. Sci. U.</i></li> <li>Podd BS, <i>et al.</i> 2006. <i>J. Immunol.</i> 176:65</li> <li>Bachelet I, <i>et al.</i> 2008. <i>J. Immunol.</i> 180:6</li> <li>Charles N, <i>et al.</i> 2010. <i>Nat. Med.</i> 16:701.</li> </ol>	32. <u>Publ</u> 5064. <u>Pu</u>	<u>Med</u> (IHC) <u>bMed</u> (FC	

**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

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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.
2. Galli SJ, *et al.* 1994. *Adv. Immunol.* 55:1.
3. Ikuta K, *et al.* 1992. *Annu. Rev. Immunol.* 10:759.
4. Besmer P,