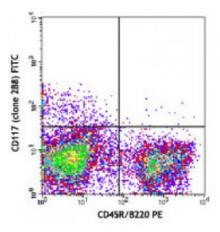
## **Product Data Sheet**

## FITC anti-mouse CD117 (c-Kit)

Catalog # / Size:	1129030 / 500 μg 1129025 / 50 μg
Clone:	2B8
Isotype:	Rat IgG2b, к
Immunogen:	Mouse bone marrow mast cells
<b>Reactivity:</b>	Mouse
Preparation:	The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.5



C57BL/6 bone marrow cells were stained with CD45R/B220 PE and CD117 (clone 2B8) FITC (top) or rat IgG2b, κ FITC isotype control (bottom).

## **Applications:**

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Applications:	Flow Cytometry	ų	201		
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 $\leq 1.0$ microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.	Rat IgG2b, k FITC	10 10 10 10 10 <sup>2</sup>	CD45R/B220 PE	1
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. USA</i> 89:1502. (FC)</li> <li>Podd BS, <i>et al.</i> 2006. <i>J. Immunol.</i> 176:6532. <u>PubMed</u> (IHC)</li> <li>Bachelet I, <i>et al.</i> 2008. <i>J. Immunol.</i> 180:6064. <u>PubMed</u> (FC)</li> <li>Charles N, <i>et al.</i> 2010. <i>Nat. Med.</i> 16:701. <u>PubMed</u> (FC)</li> <li>Gough DJ, <i>et al.</i> 2014. <i>Blood.</i> 124:2252. <u>PubMed</u></li> </ol>				
Description:	CD117 is a 145 kD immunoglobulin super stem cell factor receptor (SCFR). It is a tra	nsm	nem	brane tyrosine-kinase rece	р

**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.

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 Barclay A, *et al.* 1997. The Leukocyte Antigen FactsBook Academic Press.
 Galli SJ, *et al.* 1994. *Adv. Immunol.* 55:1.
 Ikuta K, *et al.* 1992. *Annu. Rev. Immunol.* 10:759. Antigen

**References:** 

- 4. Besmer P,

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