



CD117 Antibody [YB5.B8] (PE)

CATALOG NUMBER: 76-904

Specifications

SPECIES REACTIVITY:	Human
TESTED APPLICATIONS:	FACS
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
SPECIFICITY:	The YB5.B8 monoclonal antibody specifically binds with human CD117 (c-kit), the 145 kDa receptor for stem cell factor (SCF) or steel factor.
HOST SPECIES:	Mouse

Properties

PURIFICATION:	The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.
PHYSICAL STATE:	liquid
BUFFER:	Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.
CONCENTRATION:	5 uL (0.25 ug) / test
STORAGE CONDITIONS:	The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.
CLONALITY:	Monoclonal
ISOTYPE:	Mouse IgG1, kappa
CONJUGATE:	PE

Additional Info

ALTERNATE NAMES:	PBT, SCFR, C-Kit, CD117, KIT
OFFICIAL SYMBOL:	KIT
GENE ID:	3815

Background

BACKGROUND:	The YB5.B8 monoclonal antibody specifically binds with human CD117 (c-kit), the 145 kDa receptor for stem cell factor (SCF) or steel factor. This tyrosine kinase protein is expressed mainly on hematopoietic progenitor, mast cells, acute myeloid leukemia cells (AML). CD117 activation promotes proliferation and cell differentiation on these cell subtypes. A lack or defect of SCF can lead to a decrease in number of hematopoietic progenitor cells and severe anemia.
REFERENCES:	<p>1) Sudo, T., Nishikawa, S. A. T. O. M. I., Ohno, N. O. R. I. K. O., Akiyama, N. A. O. K. O., Tamakoshi, M. A. S. A. T. A. D. A., Yoshida, H. I. S. A. H. I. R. O. (1993). Expression and function of the interleukin 7 receptor in murine lymphocytes. <i>Proceedings of the National Academy of Sciences</i>, 90(19), 9125-9129.</p> <p>2) Hashi, H., Yoshida, H., Honda, K., Fraser, S., Kubo, H., Awane, M., ... Nishikawa, S. I. (2001). Compartmentalization of Peyer's patch anlagen before lymphocyte entry. <i>The Journal of Immunology</i>, 166(6), 3702-3709.</p> <p>3) Okuno, Y., Iwasaki, H., Huettner, C. S., Radomska, H. S., Gonzalez, D. A., Tenen, D. G., Akashi, K. (2002). Differential regulation of the human and murine CD34 genes in hematopoietic stem cells. <i>Proceedings of the</i></p>

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