



11-586-C025

## Monoclonal Antibody to CD117 Purified Antibody (0.025 mg)

<b>Clone:</b>	104D2
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	The mouse monoclonal antibody 104D2 detects extracellular part of CD117 / c-Kit protooncogen. HLDA VI; WS Code C-30
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	MOLM-1 megakaryocytic cells
<b>Species Reactivity:</b>	Human, Non-Human Primates, Bovine
<b>Application:</b>	Flow Cytometry Recommended dilution: 1 µg/ml Immunoprecipitation Immunohistochemistry (frozen sections) Immunocytochemistry
<b>Purity:</b>	> 95% (by SDS-PAGE)
<b>Purification:</b>	Purified by protein-A affinity chromatography
<b>Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
<b>Storage / Stability:</b>	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	CD117 / c-Kit (stem cell factor receptor) is a 145 kDa receptor tyrosine kinase that regulates cell proliferation, adhesion, chemotaxis, apoptosis and other cell processes. Mutations of CD117 / c-Kit can lead to growth and progression of tumours. After binding of its ligand, SCF (stem cell factor), CD117 / c-Kit is autophosphorylated on its intracellular domains and activated. CD117 is expressed on pluripotent hematopoietic progenitor cells, mast cells and various cancer cells, e.g. acute myeloid leukemia cells.

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**Antibodies****References:**

- \*Rappold I, Ziegler BL, Köhler I, Marchetto S, Rosnet O, Birnbaum D, Simmons PJ, Zannettino AC, Hill B, Neu S, Knapp W, Alitalo R, Alitalo K, Ullrich A, Kanz L, Bühring HJ: Functional and phenotypic characterization of cord blood and bone marrow subsets expressing FLT3 (CD135) receptor tyrosine kinase. *Blood*. 1997 Jul 1;90(1):111-25.
- \*Broudy VC, Lin NL, Bühring HJ, Komatsu N, Kavanagh TJ: Analysis of c-kit receptor dimerization by fluorescence resonance energy transfer. *Blood*. 1998 Feb 1;91(3):898-906.
- \*Broudy VC, Lin NL, Liles WC, Corey SJ, O'Laughlin B, Mou S, Linnekin D: Signaling via Src family kinases is required for normal internalization of the receptor c-Kit. *Blood*. 1999 Sep 15;94(6):1979-86.
- \*Yoshino N, Ami Y, Terao K, Tashiro F, Honda M: Upgrading of flow cytometric analysis for absolute counts, cytokines and other antigenic molecules of cynomolgus monkeys (*Macaca fascicularis*) by using anti-human cross-reactive antibodies. *Exp Anim*. 2000 Apr;49(2):97-110.
- \*Blair A, Sutherland HJ: Primitive acute myeloid leukemia cells with long-term proliferative ability in vitro and in vivo lack surface expression of c-kit (CD117). *Exp Hematol*. 2000 Jun;28(6):660-71.
- \*Wihlidal P, Varga F, Pfeilstöcker M, Karlic H: Expression and functional significance of osteocalcin splicing in disease progression of hematological malignancies. *Leuk Res*. 2006 Oct;30(10):1241-8.
- \*Nagano M, Yamashita T, Hamada H, Ohneda K, Kimura K, Nakagawa T, Shibuya M, Yoshikawa H, Ohneda O: Identification of functional endothelial progenitor cells suitable for the treatment of ischemic tissue using human umbilical cord blood. *Blood*. 2007 Jul 1;110(1):151-60.
- \*Stevenson KS, Mc Glynn L, Hodge M, Mc Linden H, George WD, Davies RW, Shiels PG: Isolation, Characterisation and Differentiation of Thy1.1 sorted Pancreatic Adult Progenitor Cell Populations. *Stem Cells Dev*. 2009 Mar 27.
- \*Leukocyte Typing VI., Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997).
- \*And other.

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