

Product Data Sheet

Biotin anti-human CD117 (c-kit)

Catalog # / Size: 313208 / 100 µg

Clone: 104D2

Isotype: Mouse IgG1, κ

Immunogen: MOLM-1 megakaryocytic cell line

Reactivity: Human, Cross-Reactivity: Cynomolgus, Cattle (Bovine, Cow)

Preparation: The antibody was purified by affinity chromatography, and conjugated with

biotin under optimal conditions. The solution is free of unconjugated biotin.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. **Do not freeze.**

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent

staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤2.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each

application.

Application Notes: The 104D2 antibody does not block binding of c-Kit ligand. Additional reported applications (for the relevant formats)

include: immunoprecipitation¹ and immunofluorescence microscopy¹.

Application References: 1. Broudy VC, et al. 1999. Blood 94:1979. (IF, IP)

Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC)
 Nagano M, et al. 2007. Blood 110:151. (FC) PubMed

Description: CD117 is a 145 kD protein tyrosine kinase also known as c-Kit. It is a receptor for stem cell factor or c-Kit ligand.

CD117 is expressed on pluripotent hematopoietic progenitor cells (approximately 1-4% bone marrow cells), mast cells, and acute myeloid leukemia cells (AML). CD117 binding of c-Kit ligand induces phosphorylation of CD117 and stimulates proliferation and survival of primitive hematopoietic stem cells as well as erythroid-committed and

granulo-monocytic committed cells.

Antigen References: 1. Giebel LB, et al. 1992. Oncogene 7:2207.

2. Furitsu T, et al. 1993. J. Clin. Invest. 92:1736.

Related Products: Product
Biotin Mouse IgG1, κ Isotype Ctrl

APC Streptavidin PE Streptavidin Cell Staining Buffer

Human TruŠtain FcX™ (Fc Receptor Blocking Solution)

10⁰ 10¹ 10² 10³ 10⁴

Log Fluoresence Intensity

Human erythroleukemic cell line TF-1

stained with biotinylated 104D2, followed by Sav-PE

Clone Application MOPC-21 FC, ICFC

FC, ICFC FC, ICFC FC, ICC, ICFC FC, ICC, ICFC





