

1A-586-T025

## Monoclonal Antibody to CD117 Allophycocyanin (APC) conjugated (25 tests)

**Clone:** 104D2

**Isotype:** Mouse IgG1

Specificity: The mouse monoclonal antibody 104D2 detects extracellular part of CD117 / c-Kit

protooncogen.

HLDA VI; WS Code C-30

Regulatory Status: RUO

Immunogen: MOLM-1 megakaryocytic cells

Species Reactivity: Human, Non-Human Primates, Bovine

**Preparation:** The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under

optimum conditions. The conjugate is purified by size-exclusion chromatography

and adjusted for direct use. No reconstitution is necessary.

Storage Buffer: The reagent is provided in stabilizing phosphate buffered saline (PBS) solution

containing 15mM sodium azide.

**Storage / Stability:** Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not

use after expiration date stamped on vial label.

Usage: The reagent is designed for Flow Cytometry analysis of human blood cells using

10  $\mu$ l reagent / 100  $\mu$ l of whole blood or 10 $^{\circ}$  cells in a suspension.

The content of a vial (0.25 ml) is sufficient for 25 tests.

**Expiration:** See vial label

Lot Number: See vial label

Background: 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.



## PRODUCT DATA SHEET

## References:

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