Monoclonal Antibody to CD117
Phycoerythrin (PE) conjugated (100 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 R-Phycoerythrin (PE) 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 20 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension. The content of a vial (2 ml) is sufficient for 100 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.
References:


*And other.