

TECHNICAL DATA SHEET

CyFlow™ CD117 PE-Cy5 Anti-Hu; Clone 104D2

REF CH470016

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD117
Alternative Names	c-kit, SCFR
Clone	104D2
Clonality	monoclonal
Format	PE-Cy5
Host / Isotype	Mouse / IgG1
Species Reactivity	Human, Non-Human Primates Cow
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	MOLM-1 megakaryocytic cells

Specificity

The mouse monoclonal antibody 104D2 recognizes extracellular part of CD117 antigen, a 145 kDa receptor tyrosine kinase.

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Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 4 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD117 (c-Kit) is a 145 kDa receptor tyrosine kinase that regulates cell proliferation, adhesion, chemotaxis, apoptosis and other cell processes. Mutations of CD117 can lead to growth and progression of tumors. After binding of its ligand, SCF (stem cell factor), CD117 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

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The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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