

TECHNICAL DATA SHEET

CyFlow™ CD135 PE Anti-Hu; Clone BV10A4

REF BJ941654

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

Specifications

Antigen	CD135
Alternative Names	Flt3, Flk2, STK1
Clone	BV10A4
Clonality	monoclonal
Format	PE
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	Mouse
Quantity	100 tests
Immunogen	BV-173 leukemic cell line

Specificity

The mouse monoclonal antibody BV10A4 (BV10) reacts with CD135 antigen, a 130-160 kDa type III receptor tyrosine kinase that is involved in early steps of hematopoiesis

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Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 20 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (2 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

CD135 (FLT3, FLK2, STK-1) is a receptor tyrosine kinase that plays important roles in hematopoiesis. After binding of FLT3 ligand (FL), CD135 homodimerizes and stimulates proliferation, differentiation and protects the cell from apoptosis. The loss of CD90 and gain of CD135 expression marks the loss of self-renewal in hematopoietic stem cell population. Detectable CD135 expression appears first at low levels on the surface of primitive multilineage progenitor cells and disappears during defined stages of B-cell development but is upregulated and maintained during maturation of monocytes. CD135 is also expressed on thymocytes, dendritic cell progenitors and on mature dendritic cells, as well as on various malignant hematopoietic 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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