

TECHNICAL DATA SHEET

CyFlow™ CD140a FITC Anti-Hu; Clone 16A1

REF BW170297

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

Specifications

Antigen	CD140a
Alternative Names	PDGFRA, PDGFRF2
Clone	16A1
Clonality	monoclonal
Format	FITC
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	CD140a-transfected NIH 3T3 cells

Specificity

The mouse monoclonal antibody 16A1 recognizes CD140a antigen, the 170 kDa α chain of platelet-derived growth factor receptor, which is widely expressed on a variety of mesenchymal-derived cells and plays pro-proliferative or anti-proliferative roles in various tumors.

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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

CD140a (PDGF-RA; platelet-derived growth factor receptor α) is a cell surface receptor for members of platelet-derived growth factor family, whose intracellular part contains a tyrosine kinase domain. CD140a forms homodimers, or heterodimerizes with CD140b (PDGF-RB). Whereas CD140b induces in different cell types their proliferation and migration, the role of CD140a is more controversial, with pro-proliferative or anti-proliferative effects. CD140a has early developmental functions, mediates mesodermal cell migration, and later acts in signaling associated in epithelial-mesenchymal interactions.

References

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

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