

TECHNICAL DATA SHEET

CyFlow™ CD140a Purified Anti-Hu; Clone 16A1

REF BH878486

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD140a
Alternative Names	PDGFRA, PDGFRF2
Clone	16A1
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
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

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunocytochemistry

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH $\approx$ 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

- Kish DD, Gorbachev AV, Fairchild RL: CD8+ T cells produce IL-2, which is required for CD(4+)CD25+ T cell regulation of effector CD8+ T cell development for contact hypersensitivity responses. J Leukoc Biol. 2005 Sep; 78(3):725-35. < PMID: 16000396 >
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The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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