



Antibodies

1B-589-C100

Monoclonal Antibody to CD140a / PDGF-RA Biotin conjugated (0.1 mg)

Clone:	16A1
Isotype:	Mouse IgG1
Specificity:	The mouse monoclonal antibody 16A1 recognizes CD140a / PDGF-RA, the 170 kDa alpha 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 tumours. HLDA VI.; WS Code E022
Regulatory Status:	RUO
Immunogen:	CD140a-transfected NIH 3T3 cells
Species Reactivity:	Human
Preparation:	The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Usage:	Biotinylated antibody is designed for indirect immunofluorescence analysis by Flow Cytometry. Suggested working dilution is 3 µg/ml. Indicated dilution is recommended starting point for use of this product. Working concentrations should be determined by the investigator.
Expiration:	See vial label
Lot Number:	See vial label
Background:	CD140a / PDGF-RA (platelet-derived growth factor receptor alpha) 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.

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References:

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- *French WJ, Creemers EE, Tallquist MD: Platelet-derived growth factor receptors direct vascular development independent of vascular smooth muscle cell function. *Mol Cell Biol.* 2008 Sep;28(18):5646-57.
- *Schmahl J, Rizzolo K, Soriano P: The PDGF signaling pathway controls multiple steroid-producing lineages. *Genes Dev.* 2008 Dec 1;22(23):3255-67.
- *Faraone D, Aguzzi MS, Toietta G, Facchiano AM, Facchiano F, Magenta A, Martelli F, Truffa S, Cesareo E, Ribatti D, Capogrossi MC, Facchiano A: Platelet-derived growth factor-receptor alpha strongly inhibits melanoma growth in vitro and in vivo. *Neoplasia.* 2009 Aug;11(8):732-42.
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