



1P-590-T025

## Monoclonal Antibody to CD140b / PDGF-RB Phycoerythrin (PE) conjugated (25 tests)

<b>Clone:</b>	18A2
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	The monoclonal antibody 18A2 recognizes CD140b / PDGF-RB, the 180-190 kDa beta chain of platelet-derived growth factor receptor, which is widely expressed on a variety of mesenchymal-derived cells and plays pro-proliferative roles.
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	CD140b-transfected NIH 3T3 cells
<b>Species Reactivity:</b>	Human
<b>Preparation:</b>	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
<b>Storage Buffer:</b>	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
<b>Storage / Stability:</b>	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
<b>Usage:</b>	The reagent is designed for Flow Cytometry analysis of human blood cells using 20 µl reagent / 100 µl of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (0.5 ml) is sufficient for 25 tests.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	CD140b / PDGF-RB (platelet-derived growth factor receptor beta) is a cell surface receptor for members of platelet-derived growth factor family, whose intracellular part contains a tyrosine kinase domain. CD140b forms homodimers, or heterodimerizes with CD140a / PDGF-RA. Whereas CD140a can have both pro-proliferative or anti-proliferative effects, the CD140b induces in various cell types their proliferation and migration. CD140b has also developmental roles in the cardiovascular system and is preferentially expressed on some tumours such as medulloblastoma.
<b>References:</b>	*Andrae J, Gallini R, Betsholtz C: Role of platelet-derived growth factors in physiology and medicine. <i>Genes Dev.</i> 2008 May 15;22(10):1276-312. *French WJ, Creemers EE, Tallquist MD: Platelet-derived growth factor receptors direct vascular development independent of vascular smooth muscle cell function. <i>Mol Cell Biol.</i> 2008 Sep;28(18):5646-57. *Schmahl J, Rizzolo K, Soriano P: The PDGF signaling pathway controls multiple steroid-producing lineages. <i>Genes Dev.</i> 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. <i>Neoplasia.</i> 2009 Aug;11(8):732-42. *Fekete N, Rojewski MT, Fürst D, Kreja L, Ignatius A, Dausend J, Schrezenmeier H: GMP-compliant isolation and large-scale expansion of bone marrow-derived MSC. <i>PLoS One.</i> 2012;7(8):e43255. doi: 10.1371/journal.pone.0043255

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