



Antibodies

1A-589-T100

## Monoclonal Antibody to CD140a / PDGF-RA Allophycocyanin (APC) conjugated (100 tests)

|                             |   |
|-----------------------------|---|
| <b>Clone:</b>               | 16A1  |
| <b>Isotype:</b>             | Mouse IgG1  |
| <b>Specificity:</b>         | 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.<br>HLDA VI.; WS Code E022   |
| <b>Regulatory Status:</b>   | RUO   |
| <b>Immunogen:</b>           | CD140a-transfected NIH 3T3 cells  |
| <b>Species Reactivity:</b>  | Human   |
| <b>Preparation:</b>         | The purified antibody is conjugated with cross-linked Allophycocyanin (APC) 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 10 µl reagent / 100 µl of whole blood or 10 <sup>6</sup> cells in a suspension.<br>The content of a vial (1 ml) is sufficient for 100 tests.   |
| <b>Expiration:</b>          | See vial label  |
| <b>Lot Number:</b>          | See vial label  |
| <b>Background:</b>          | 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.   |
| <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.<br>*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.<br>*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.<br>*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.<br>*Leukocyte Typing VI., Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997). |

**For laboratory research only, not for drug, diagnostic or other use.**



**Antibodies**

Unless indicated otherwise, all products are For Research Use Only and not for diagnostic or therapeutic use. Not for resale or transfer either as a stand-alone product or as a component of another product without written consent of EXBIO. EXBIO will not be held responsible for patent infringement or other violations that may occur with the use of our products. All orders are accepted subject to EXBIO's term and conditions which are available at [www.exbio.cz](http://www.exbio.cz).

**For laboratory research only, not for drug, diagnostic or other use.**

---

EXBIO Praha | Nad Safinou II 341 | 252 50 Vestec u Prahy | Czech Republic  
Tel: +420 261 090 666 | Fax: +420 261 090 660 | [orders@exbio.cz](mailto:orders@exbio.cz) | [www.exbio.cz](http://www.exbio.cz)