



11-590-C100

Monoclonal Antibody to CD140b / PDGF-RB Purified Antibody (0.1 mg)

Clone:	18A2
Isotype:	Mouse IgG1
Specificity:	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.
Regulatory Status:	RUO
Immunogen:	CD140b-transfected NIH 3T3 cells
Species Reactivity:	Human
Application:	Flow Cytometry Recommended dilution: 1-5 µg/ml Immunocytochemistry
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by protein-A affinity chromatography
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.
Expiration:	See vial label
Lot Number:	See vial label
Background:	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.
References:	*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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Antibodies

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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 | www.exbio.cz