Datasheet for ABIN457302

anti-PDGFRA antibody (APC)

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Overview

Quantity:	100 tests
Target:	PDGFRA
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PDGFRA antibody is conjugated to APC
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	CD140a-transfected NIH 3T3 cells
Clone:	16A1
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody 16A1 recognizes an extracellular epitope of 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.
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	PDGFRA
Alternative Name:	CD140a / PDGF-RA (PDGFRA Products)
Background:	Platelet derived growth factor receptor alpha,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.,PDGFRA, PDGFR2
Gene ID:	5156
UniProt:	P16234
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Platelet-derived growth Factor Receptor Signaling

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Comment:	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.
Restrictions:	For Research Use only

Handling

Reconstitution:	No reconstitution is necessary.
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	**Do not freeze.**

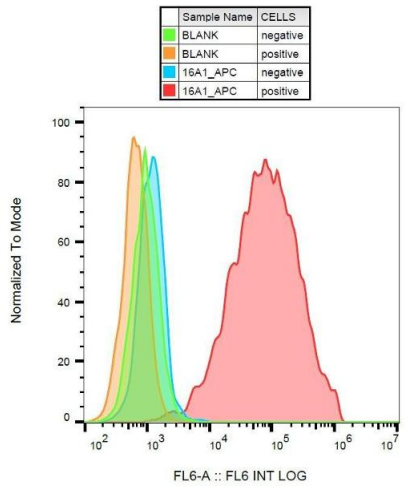
Handling

	Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

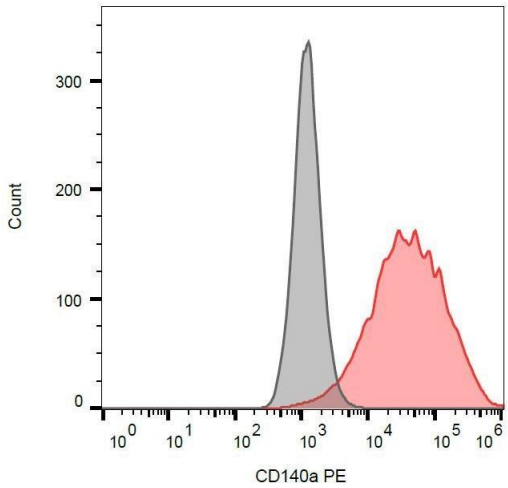
Product cited in:	Quattrocelli, Giacomazzi, Broeckx, Ceelen, Bolca, Spaas, Sampaolesi: "Equine-Induced Pluripotent Stem Cells Retain Lineage Commitment Toward Myogenic and Chondrogenic Fates." in: **Stem cell reports**, Vol. 6, Issue 1, pp. 55-63, (2016) (PubMed).

Images



Flow Cytometry

Image 1. Surface staining of CD140a in CD140a-transfected 3T3 cells using anti-CD140a (16A1) APC.



Flow Cytometry

Image 2. Surface staining of CD140a in CD140a-transfected 3T3 cells using anti-CD140a (16A1) APC.