Data Sheet (Cat.No.TMAY-00931A)

TargetMol

Anti-PDGFRB Antibody-APC (7C914)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	APC
Clone:	7C914
Purification:	Protein A

Applications

Verified Activity:	Flow cytometric analysis of Human PDGFRβ (CD140b) expression on MG63 cells. Cells were stained with APC-conjugated anti-Human PDGFRβ (CD140b). The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.
Application:	FCM
Recommended	5 μl/Test, 0.1 mg/ml

Properties

Stability & Storage:	Store at 2°C-8°C for 12 months, do not freeze. Keep away from direct sunlight. Sodium azide is toxic to cells and should be disposed of properly. Flush with large volumes of water during disposal.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human PDGFRB/CD140b Protein (TMPY-01207)
Antigen Species:	Human
Synonyms:	JTK12;KOGS;PENTT;IMF1;CD140B;IBGC4;platelet-derived growth factor receptor, β polypeptide; PDGFR1;PDGFR;PDGFR-1;platelet-derived growth factor receptor, beta polypeptide
Biology Area:	Cancer Drug Targets, Receptor Tyrosine Kinases (RTKs)

Research Background

The cluster of differentiation (CD) system is commonly used as cell markers in Immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. CD140b, also known as PDGFRB, is a member of the CD system. CD140b is a cell surface tyrosine kinase receptor essencial for development interacting with the platelet-derived growth factors (PDGFs) which serves as mitogens for mesenchymal cells. CD140b can bind with platelet-derived growth factor (PDGF)-B, that are secreted by tumors and phosphorylation of PDGFR-β was correlated with depth of cancer invasion at statistically significant level.Cancer ImmunotherapyImmune CheckpointImmunotherapyTargeted Therapy

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