DVS Sciences

Product Information Sheet

Anti-Human PDGF Receptor a-160Gd

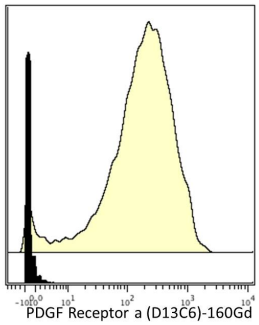
Catalog #: 3160007A
Package Size: 50 tests
Storage: Store product at 4°C. Do not freeze.
Cross Reactivity: Human

Clone: D13C6
Isotype: Rabbit IgG
Formulation: Antibody stabilizer with 0.05% Sodium Azide

Technical Information

Validation: Each lot of conjugated antibody is quality control tested by CyTOF® analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

Recommended Usage: The suggested use is 1 µl for up to 3 X 10^6 live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human NCI-H1703 lung adenocarcinoma cells (top) and human Jurkat T cells (bottom) stained with 160Gd-anti-PDGF Receptor a (D13C6).

Description

PDGFRα (platelet-derived growth factor receptor alpha), also known as CD140a, is a 170 kDa single transmembrane glycoprotein expressed on a vareity of cells including fibroblasts, smooth muscle cells, glial cells and chondrocytes. PDGFRα forms a receptor for PDGF family proteins as either a homodimer or as a heterodimer with PDGFRβ. Proteins of the PDGF family exist as several dimeric isoforms (PDGF-AA, PDGF-AB, PDGF-BB, PDGF-CC and PDGF-DD) that bind in a specific manner to PDGF receptors. PDGFRα and PDGFRβ can also form heterodimers with EGFR, which is also activated by PDGF family proteins. Ligand binding to PDGF receptors initiates multiple cellular functions including cell growth, actin reorganization, migration and differentiation.

References

Bandura, D. R., et al. Mass Cytometry: Technique for Real Time Single Cell Multitarget Immunoassay Based on Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. *Analytical Chemistry* 81:6813-6822, 2009.

Ornatsky, O. I., et al. Highly multiparametric analysis by mass cytometry. J Immunol Methods 361 (1-2):1-20, 2010.

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