

## Anti-Human VEGF-161Dy

**Catalog #:** 3161002B

**Package Size:** 100 tests

**Storage:** Store product at 4°C. Do not freeze.

**Cross Reactivity:** Human

**Clone:** 23410

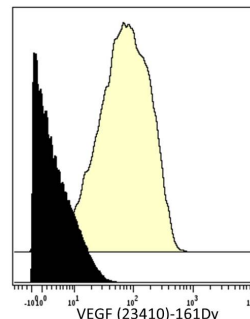
**Isotype:** Mouse IgG2a

**Formulation:** Antibody stabilizer with 0.05% Sodium Azide

### Technical Information

**Validation:** Each lot of conjugated antibody is quality control tested by CyTOF<sup>®</sup> 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<sup>6</sup> live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human Hela epithelial cells (top) and human Daudi cells (bottom) were fixed, permeabilized, and stained with 161Dy-anti-VEGF (23410).

### Description

Vascular endothelial growth factor (VEGF) is a growth factor that stimulates vasculogenesis and angiogenesis thereby restoring the oxygen supply to tissues when blood circulation is inadequate. VEGF is secreted as a homodimer of 45 kDa by many different cell types. Several splice variants of VEGF have been described, but VEGF165 is the most predominant and anchors with its heparin binding domain to the extracellular matrix and to heparin sulfate. VEGF has been implicated as playing a role in a variety of disease conditions including cancer and diabetes.

### 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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