

# Anti-Human CD49a-163Dy

Catalog: 3163015B

Package Size: 100 tests

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

Reactivity: Human,

Clone: TS2/7

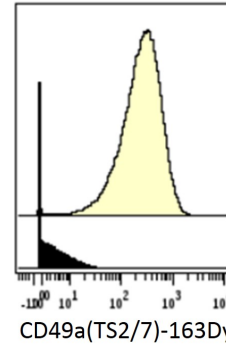
Isotype: IgG1

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 HT29 cells (top) and human MOLT-4 cells (bottom) were stained with 163Dy-anti-CD49a(TS2/7). Total viable cells are displayed in the analysis.

## Description

The monoclonal antibody TS2/7 binds specifically to human CD49a, also known as integrin alpha 1. CD49a, also known as α1 integrin, VLA-1 α chain, or Integrin α1, is a 200 kD type I transmembrane glycoprotein. CD49a binds with the integrin β 1 subunit (CD29) to form the α 1/ β 1 heterodimer (CD49a/CD29), and serves as receptor for laminin-1 and collagen. CD49a is expressed on activated T cells, monocytes, neuronal cells and smooth muscle cells. There is evidence that CD49a plays a role in cell attachment during the development of the central and peripheral nervous systems.

## 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.

**For technical support visit [fluidigm.com/support](http://fluidigm.com/support)**

EMAIL

United States support.northamerica@fluidigm.com | Europe support.europe@fluidigm.com

Asia techsupportasia@fluidigm.com | Latin America techsupportlatam@fluidigm.com

All other countries techsupport@fluidigm.com

PHONE

United States (toll-free) +1 866 358 4354 | Europe +33 1 60 92 42 40

Japan +81 3 3662 2150 | China (excluding Hong Kong) +86 21 3255 8368

All other countries +1 650 266 6100

**For Research Use Only. Not for use in diagnostic procedures.**

This product contains antibodies manufactured by and sold under license from BioLegend and licensees thereof.

Information in this publication is subject to change without notice. **Safety data sheet information** [fluidigm.com/sds](http://fluidigm.com/sds) **Patent and license information** [fluidigm.com/legalnotices](http://fluidigm.com/legalnotices) | Fluidigm, the Fluidigm logo, Cell-ID, CyTOF, and Maxpar are trademarks or registered trademarks of Fluidigm Corporation in the United States and/or other countries. All other trademarks are the sole property of their respective owners. © 2015 Fluidigm Corporation. All rights reserved. 06/2015