

# Anti-Human CD1a-167Er

Catalog: 3167012B

Package Size: 100 tests

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

Reactivity: Human

Clone: HI149

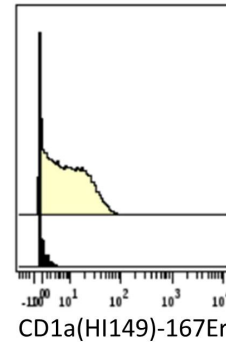
Isotype: IgG1

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  $\mu$ l for up to  $3 \times 10^6$  live cells in 100  $\mu$ l. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human MOLT-4 cells (top) and human HT29 cells (bottom) stained with 167Er-anti-CD1a(HI149).

## Description

CD1a is a 49 kD type I transmembrane glycoprotein. It shares structural similarities with MHC class I proteins and is non-covalently associated with  $\beta$ 2-microglobulin. CD1a is a member of the CD1 family of molecules in the immunoglobulin superfamily. CD1 molecules fall into two groups. Group 1 includes CD1a, CD1b and CD1c molecules; group 2 includes CD1d molecules and their homologs. CD1a is expressed on cortical thymocytes, dendritic cells and Langerhans cells. CD1a plays a role in antigen presentation and has been implicated in thymic T cell development.

## 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)

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