

# Anti-Human CD1d-162Dy

Catalog: 3162025B

Package Size: 100 tests

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

Reactivity: Human

Clone: 51.1

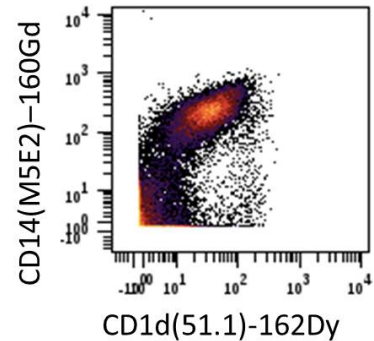
Isotype: IgG2b

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 PBMCs stained with 162Dy-anti-CD1d(51.1) and 160Gd-anti-CD14(M5E2). Total viable cells are displayed in the analysis.

## Description

CD1d is a type I transmembrane protein, structurally homologous to Class I MHC molecules. It consists of a glycosylated type I transmembrane  $\alpha$  chain (43-49 kDa), which forms a heterodimer with  $\beta$ 2-microglobulin. CD1d 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. CD1d is expressed on cortical thymocytes, B cells, dendritic cells, monocytes, and some nonlymphoid cells including intestinal epithelial cells, hepatocytes and keratinocytes. CD1d has been implicated in lipid antigen presentation to CD1d-restricted NKT cells.

## 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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 PHONE **United States (toll-free)** +1 866 358 4354 | **Europe** +33 1 60 92 42 40 | **Japan** +81 3 3662 2150 | **China** +86 21 3255 8368 | **All other countries** +1 650 266 6100

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