

# Anti-Human CD229-174Yb

Catalog: 3174017B

Package Size: 100 tests

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

Reactivity: Human,

Clone: HLy9.1.25

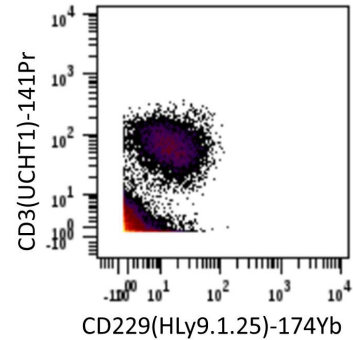
Isotype: IgG1

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<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 whole blood stained with 174Yb-anti-CD229(HLy9.1.25) and 141Pr-anti-CD3(UCHT1). Total viable cells are displayed in the analysis.

## Description

The HLy9.1.25 monoclonal antibody binds specifically to CD229, a 100-120 kD single-pass type I membrane glycoprotein also known as Signaling lymphocyte activation molecule family member 3 (SLAMF3), Lymphocyte antigen 9 (Ly9), or T-lymphocyte surface antigen Ly-9. CD229 is expressed on T cells, B cells, NK cells, and thymocytes. CD229 is thought to play a role in adhesive interactions between T and B cells via a homophilic binding interaction. It has been observed that CD229 localizes to the immunological synapse during T cell activation.

## 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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### 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

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