

Anti-Mouse CD229-174Yb

Catalog #: 3174007B

Package Size: 100 tests

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

Cross Reactivity: Mouse

Clone: Ly9ab3

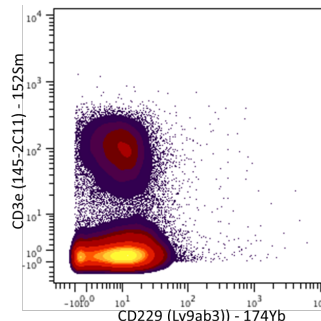
Isotype: Hamster IgG

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 10⁶ live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



C57BL/6 mouse splenocytes stained with 152Sm-anti-CD3e (145-2C11) and 174Yb-anti- CD229 (Ly9ab3).

Description

CD229, also known as Ly9, is a 100-120 kDa member of the SLAM family. CD229 is reported to be a homophilic receptor with broad expression throughout the hemopoietic system. CD229 expression has been confirmed in T cells, B cells, macrophages, dendritic cells, and granulocytes (our unpublished observations). All of the SLAM family receptors contain tandem IgV and IgC2 sets in their extracellular domains and several contain immune receptor tyrosine based switch motifs (ITSMs) in their cytoplasmic tails. SLAM family markers including CD150, CD48, CD244 and CD229 can be used to resolve functionally distinct populations of hematopoietic stem cells and multipotent progenitors.

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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