

Anti-Mouse CD223/LAG-3-174Yb

Catalog: 3174019B

Package size: 100 tests

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

Clone: C9B7W

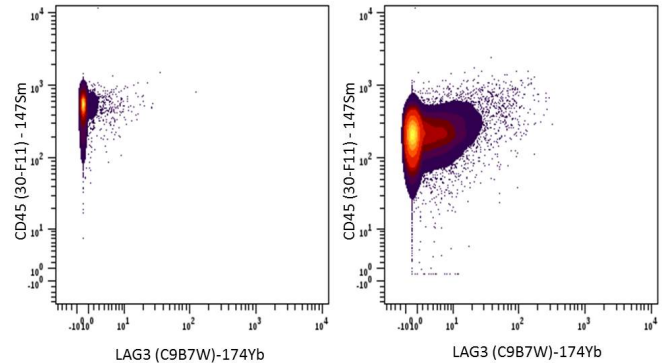
Isotype: Rat IgG1

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 3×10^6 live cells in 100 µL. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Mouse splenocytes were incubated for 3 days in media alone (left) or with concanavalin A (right) and then stained with 147Sm-anti-CD45 (30-F11) and 174Yb-anti-LAG3 (C9B7W). T and B cells are displayed in the analysis.

Description

Lymphocyte activation gene-3 (LAG-3) is a type I transmembrane protein expressed on activated CD4+ and CD8+ T cells, a subset of gamma delta T cells, NK cells and regulatory T cells (Tregs). LAG-3 binds to MHC Class II with higher affinity than CD4, and the function of LAG-3 is dependent on this interaction. LAG-3-deficient mice do not exhibit any phenotypic defects. However they undergo an increase in expansion compared to wild-type T cells in a lymphopenic environment. Both thymically and peripherally derived Tregs lacking LAG-3 are defective in their suppressive activity, and ectopic expression of LAG-3 imparts regulatory phenotype to CD4+CD25- T 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 (2009): 6,813–22.

Ornatsky, O. I., et al. Highly Multiparametric Analysis by Mass Cytometry. *Journal of Immunological Methods* 361 (2010): 1–20.

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