

Anti-Mouse RORgt-159Tb

Catalog: 3159019B

Package Size: 100 tests

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

Reactivity: Mouse,

Clone: B2D

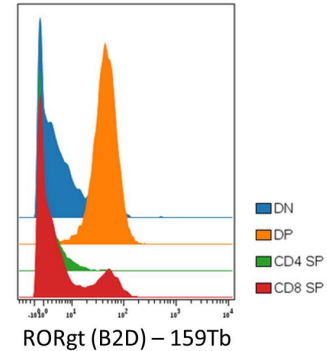
Isotype: IgG1

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



Mouse thymocytes stained with 159Tb anti-RORgt (B2D), 172Yb anti-CD4 (RM4-5) and 153Eu anti-CD8 (53-6.7) using the Nuclear Antigen Staining Buffer Set (cat. 201063). Viable DN (CD4-CD8-), DP (CD4+CD8+), CD4 SP (CD4+CD8-) and CD8 SP (CD4-CD8+) cells are displayed in the analysis.

Description

RORγ (Retinoid-related orphan receptor gamma) is a member of the nuclear hormone receptor family, NR1 subfamily. RORγ has two isoforms: γ1 and γ2 (also referred to as RORγt). The RORγt differs from RORγ1 isoform by lacking three unique amino acids at the amino terminus. Therefore, the B2D antibody will react with both the RORγ and RORγt isoforms. RORγt is expressed exclusively in only two cell populations, DP thymocytes and lymphoid tissue inducers (LTi). RORγt is essential for lymph nodes and Peyer's patches development and plays a critical role in control apoptosis during thymopoiesis and T cell homeostasis.

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

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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