

Anti-Mouse CD3e-152Sm

Catalog #: 3152004B

Package Size: 100 tests

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

Cross Reactivity: Mouse

Clone: 145-2C11

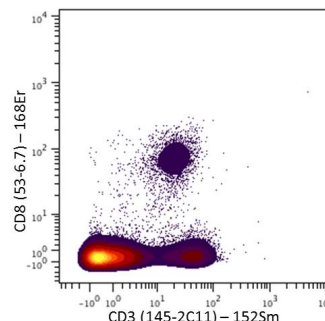
Isotype: Hamster IgG

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.



Mouse splenocytes stained with 152Sm anti-CD3e(145-2C11) and 168Er anti-CD8 (53-6.7). Total viable cells are displayed in the analysis.

Description

Mouse CD3ε is a 20 kDa subunit of the TCR complex. There are three CD3 subunits, epsilon, gamma and delta and they are all required for proper assembly, trafficking and surface expression of the TCR complex. CD3 is expressed at different levels on thymocytes during T cell differentiation and by all mature T cells. Binding of 145-2C11 to TCR initiates the intracellular biochemical pathway resulting in cellular activation, proliferation, and apoptosis depending on specific conditions utilized. 145-2C11 is commonly used as a phenotypic marker for mouse 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* 81:6813-6822, 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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