

Anti-Human/Mouse Gata-3-167Er

Catalog #: 3167007A

Package Size: 50 tests

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

Cross Reactivity: Mouse, Human

Clone: TWAJ

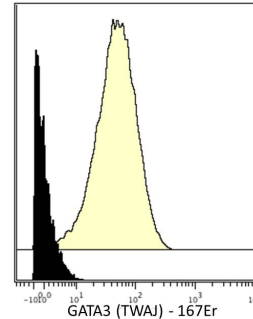
Isotype: Rat IgG2b

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.



Human Jurkat T cells (top) and human Ramos B cells (bottom) were fixed, permeabilized, and stained with 167Er-anti-GATA3 (TWAJ).

Description

Gata-3 is a transcription factor that is vital for the development of T cells in the thymus, maturation of bone marrow NK cells and development of thymic NK cells. In addition, Gata-3 is considered to be an important "master-regulator" for development of CD4+ Th2 cells. During Th2 activation Gata-3 induces the expression of IL-4, IL-5 and IL-13. Gata-3 is also important in non-hematopoietic tissue including the kidney, hair follicles, skin cells and mammary gland. Gata-3 deficient mice die at around e11 of a secondary cardiac insufficiency.

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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