

Anti-Human NFAT1-143Nd

Catalog: 3143023A

Package Size: 50 tests

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

Reactivity: Mouse, Human,

Clone: D43B1

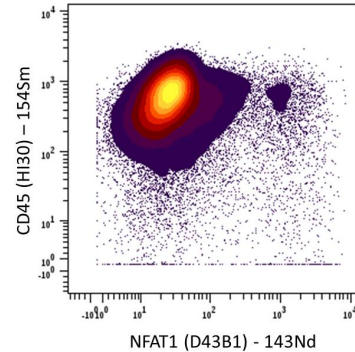
Isotype: Rabbit IgG

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.



Human PBMCs were fixed, permeabilized, and stained with 154Sm-anti-CD45 (HI30) and 143Nd-anti-NFAT1 (D43B1). Total viable cells are displayed in the analysis.

Description

NFAT1, also known as NFATC2 (nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2), belongs to the NFAT family of transcription factors that are located in the cytoplasm in their inactive state. All members of this family have a Rel homology domain and regulate gene transcription in concert with AP-1 (Jun/Fos) to orchestrate an effective immune response. NFAT proteins are predominantly expressed in cells of the immune system, but are also expressed in skeletal muscle, keratinocytes, and adipocytes, regulating cell differentiation programs in these cells. NFAT mediates the transcriptional induction of cytokines and other immune-regulatory genes during immune responses.

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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