

Anti-Mouse Perforin-172Yb

Catalog #: 3172018B

Package Size: 100 tests

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

Cross Reactivity: Mouse

Clone: OMAK-D

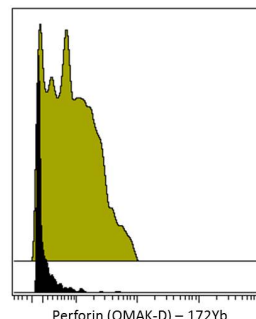
Isotype: Rat IgG2a

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 were unstimulated (bottom) or stimulated with ConA and recombinant mouse IL-2 (top) for 3 days and then stained with 172Yb-anti-Perforin (OMAK-D). Total viable NK cells are displayed in the analysis.

Description

Perforin is a 66 kDa cytotoxic effector molecule primarily released by CD8+ T cells and natural killer (NK) cells to eliminate infected or dangerous cells via the perforin/granzyme cell death pathway. Perforin-mediated cytotoxicity is also involved in the homeostatic regulation of CD4+ and CD8+ T cells in vivo, in a physiologic function distinct from pathogen clearance. Perforin-deficient mice are susceptible to increases in CD8+ T-cell activation and IFN-g production in response to distinct stimuli. In humans, impaired perforin-dependent cytotoxic function leads to excessive T-cell activation, severe hyperinflammation, and the often fatal disorder hemophagocytic lymphohistiocytosis."

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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