

Anti-Human Perforin Antibody, Clone deltaG9, PE

Mouse monoclonal antibody against human perforin, PE-conjugated

Catalog #100-1456 120 Tests 1.6 μL/test

Doutouin

Product Description

Taract Anticon.

This mouse monoclonal antibody (clone deltaG9) reacts with human perforin. Perforin is an ~70 kDa protein consisting of four domains: the N- and C-termini, which are related to its function, and two central domains that share similarities to complement proteins C6 - C9. Perforin is involved in the perforin/granzyme apoptosis pathway and is produced by natural killer and cytotoxic T cells. Upon contact with a target cell, perforin monomers are released and aggregate to form pores in the membrane of the target cell, disrupting its membrane integrity. This allows granzyme B to enter the target cell and initiate apoptosis of virally infected and transformed cells. The deltaG9 antibody is suitable for the detection of intracellular perforin by flow cytometry.

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Alternative Names:	Cytolysin, lymphocyte pore forming protein, P1, perforin 1, PFP
Gene ID:	5551
Species Reactivity:	Human
Host Species:	Mouse
Clonality:	Monoclonal
Clone:	deltaG9
Isotype:	lgG2b, kappa
Immunogen:	Purified granules from human YT lymphoma cell line
Conjugate:	PE (Phycoerythrin)

Applications

Verified Applications: FC

Reported Applications: FC

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IHC-P: Immunohistochemistry (paraffin-embedded); IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Purification: The antibody was purified by affinity chromatography and conjugated with PE. The solution is free of

unconjugated PE.

Stability and Storage: Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged

exposure to light. Stable until expiry date (EXP) on label.

Directions for Use: For flow cytometry, the suggested use of this reagent is 1.6 μ L per 5 x 10^5 cells in 80 μ L. It is

recommended that the antibody be titrated for optimal performance for each application.

Data

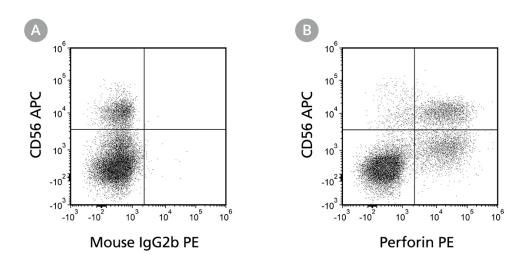


Figure 1. Flow Cytometry Analysis of Human NK Cells Labeled With Kappa PE Isotype Control and Clone deltaG9, PE Antibodies

(A) Flow cytometry analysis of human NK cells labeled with Mouse IgG2b, kappa PE Isotype Control antibody and anti-human CD56 antibody, clone HCD56, APC (Catalog #60021AZ). (B) Flow cytometry analysis of human NK cells labeled with anti-human perforin Antibody, Clone deltaG9, PE and anti-human CD56 antibody, clone HCD56, APC (Catalog #60021AZ).

Related Products

For a complete list of antibodies, including other conjugates, sizes, and clones, as well as related products available from STEMCELL Technologies, visit www.stemcell.com/antibodies, or contact us at techsupport@stemcell.com.

References

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