

# Anti-Human Perforin Antibody, Clone deltaG9

Mouse monoclonal antibody against human perforin, unconjugated

Catalog #100-1457

100 µg

1.0 mg/mL

## Product Description

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.

<b>Target Antigen:</b>	Perforin
<b>Alternative Names:</b>	Cytolysin, lymphocyte pore forming protein, P1, perforin 1, PFP
<b>Gene ID:</b>	5551
<b>Species Reactivity:</b>	Human
<b>Host Species:</b>	Mouse
<b>Clonality:</b>	Monoclonal
<b>Clone:</b>	deltaG9
<b>Isotype:</b>	IgG2b, kappa
<b>Immunogen:</b>	Purified granules from human YT lymphoma cell line
<b>Conjugate:</b>	Unconjugated

## Applications

Reported Applications: FC, IF, IHC

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.

**Stability and Storage:** Product stable at 2 - 8°C when stored undiluted. Do not freeze. Stable until expiry date (EXP) on label.

**Directions for Use:** For flow cytometry, the suggested use of this antibody is 0.08 µg per 5 x 10<sup>5</sup> cells in 80 µL. It is recommended that the antibody be titrated for optimal performance for each application.

## 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](http://www.stemcell.com/antibodies), or contact us at [techsupport@stemcell.com](mailto:techsupport@stemcell.com).

## References

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