

PRODUCT INFORMATION

PeliCluster Anti-Granzyme B

PeliCluster Anti-Granzyme B is a mouse monoclonal antibody (clone GB11) targeting the human serine protease Granzyme B. Granzyme B is stored in cytotoxic T lymphocytes and NK cell granules and plays a key role in apoptosis and immune defense. This antibody provides high specificity for cytoplas-

Article number	M9174.1 / M9174.5
Product group	Immune reagents
Technique	Flowcytometry

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PeliCluster Anti-Granzyme B

REF M9174.1

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For research use only

Application

The monoclonal Antibody (Clone GB11)¹⁻³ is derived from a single cell clone, ensuring high specificity and uniformity in recognizing a single epitope on the Granzyme B protein. Granzyme B is a 32 kDa serine protease. Granzyme B is abundantly stored in the granules of cytotoxic T lymphocytes and NK cells. Low levels of expression have been reported in granulocytes, B cells, and activated dendritic cells. Granzyme B is crucial for rapid induction of cell death and apoptosis through interaction with mannose-6-phosphate receptor.

Characteristics

Type: Monoclonal Antibody

Isotype: Mouse IgG1, K

Clone: CLB-GB11

Composition

Product: PeliCluster Anti-Granzyme B

Buffer: 20 mM Tris, 150 mM NaCl, pH 8.0

Concentration: 2 mg/mL

Preservative: None

Precautions

For Research Use Only. Not for use in diagnostic procedures. Keep only in original packaging. Product should be stored upright. Leaking or damaged vials must not be used. The reagent cannot be assumed to be free from infectious agents. Care must be taken in the use and disposal of each container and its contents. Waste-disposal, after completion of the test, should be performed according to your laboratory regulations. CoA is available through the website.

Specimen Collection and Handling

Source: Tissue culture

Purification method: Protein A chromatography

Specificity: 8-25% positive with lymphocytes (cytoplasmatic)

Storage: See Label

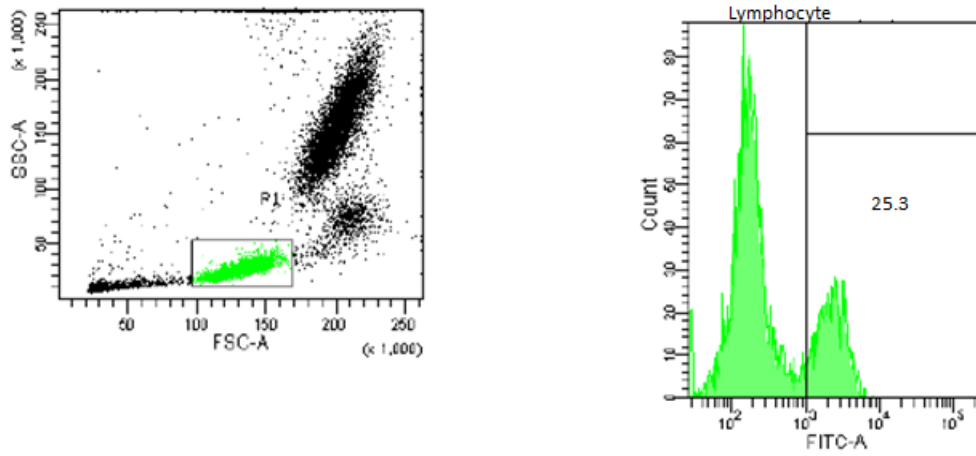


Figure 1. This figure presents the flow cytometry analysis of Granzyme B, conducted with FITC. The analysis was performed on a BD Biosciences FACS Canto II system to assess the expression levels of Granzyme B.

Disclaimer

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1. Kummer, J. A. et al. Production and Characterization of Monoclonal Antibodies Raised against Recombinant Human Granzymes A and B and Showing Cross Reactions with the Natural Proteins *. Journal of immunological Methods vol. 163 (1993).
2. Wever, P. C. et al. The CD8 + Granzyme B + T-Cell Subset in Peripheral Blood from Healthy Individuals Contains Activated and Apoptosis-Prone Cells. Immunology vol. 93 (1998).
3. Spaeny-Dekking, E. H. A. et al. Extracellular Granzymes A and B in Humans: Detection of Native Species During CTL Responses In Vitro and In Vivo. The Journal of Immunology 160, 3610–3616 (1998).