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30-2530: Anti-Granzyme B FITC (Clone: CLB-GB11)

Clonality: Monoclonal
Clone Name: CLB-GB11
Application: FACS
Reactivity: Human
Conjugate: FITC
Gene: GZMB
Gene ID: 3002

Alternative Name: GZMB, HLP, CTLA1, SECT, granzyme B

Isotype: Mouse IgG1

Immunogen Information: Human NK cell line YT-INDY-derived granzyme B

Description

Granzyme B is a serine protease that is expressed in cytoplasmic granules of cytotoxic T lymphocytes and NK cells. Vectorial secretion of perforin and granzymes is responsible for their granule-mediated cytotoxicity. Granzyme B plays a pivotal role in the induction of apoptosis in the target cells by activation of caspases. Moreover, granzyme B was reported to cleave directly alphatubulin, leading to perturbation of microtubule networks during the induced cell death.

Specificity: The mouse monoclonal antibody CLB-GB11 recognizes granzyme B, a 31 kDa serine protease expressed intracellularly in activated Tc cells and NK cells.

Product Info

Amount: 100 tests

Purification:

The purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum

conditions. The conjugate is purified by size-exclusion chromatography.

Content: Formulation: Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide

Storage condition: Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 4 $\hat{A}\mu$ l reagent / 100 $\hat{A}\mu$ l of whole blood or 10⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

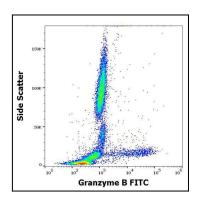


Figure 1 : Flow cytometry intracellular staining pattern of human peripheral whole blood stained using anti-human Granzyme B (CLB-GB11) FITC antibody (4 µl reagent / 100 µl of peripheral whole blood).



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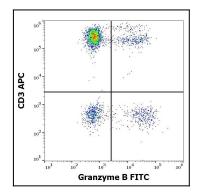


Figure 2 : Flow cytometry multicolor intracellular staining of human lymphocytes stained using anti-human Granzyme B (CLB-GB11) FITC antibody (4 μ l reagent / 100 μ l of peripheral whole blood) and anti-human CD3 (UCHT1) APC antibody (10 μ l reagent / 100 μ l of peripheral whole blood).

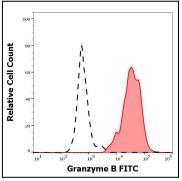


Figure 3 :Separation of human CD3 negative Granzyme B positive lymphocytes (red-filled) from CD3 negative Granzyme B negative lymphocytes (black-dashed) in flow cytometry analysis (intracellular staining) of human peripheral whole blood stained using anti-human Granzyme B (CLB-GB11) FITC antibody (4 μ l reagent / 100 μ l of peripheral whole blood).