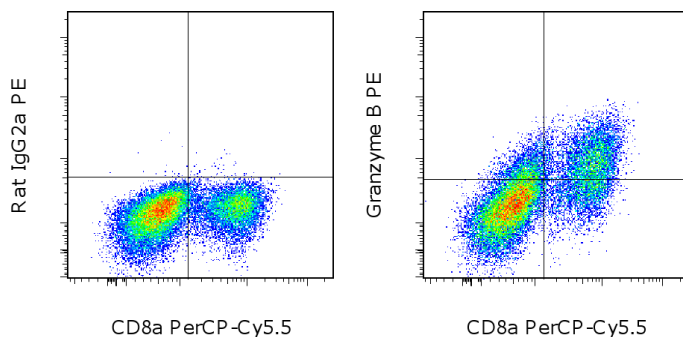


## Anti-Mouse Granzyme B PE

**Catalog Number:** 12-8898

**Also known as:** CGL1, CTLA-1

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



BALB/c splenocytes were cultured with plate bound Anti-Mouse CD3e Functional Grade Purified (cat. 16-0031) and Anti-Mouse CD28 Functional Grade Purified (cat. 16-0281) for 3 days, then cultured with Protein Transport Inhibitor Cocktail (cat. 00-4980) for an additional 5 hours. Cells were surface stained with Anti-Mouse CD8a PerCP-Cy5.5 (cat. 45-0081) followed by intracellular staining with 0.06 ug of Rat IgG2a K Isotype Control PE (cat. 12-4321) (left) or 0.06 ug of Anti-Mouse Granzyme B PE (right). Total viable cells were used for analysis.

### Product Information



**Contents:** Anti-Mouse Granzyme B PE

**Catalog Number:** 12-8898

**Clone:** NGZB

**Concentration:** 0.2 mg/mL

**Host/Isotype:** Rat IgG2a, k



**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light-sensitive material.

**Batch Code:** Refer to vial

**Use By:** Refer to vial



### Description

This NGZB monoclonal antibody reacts with mouse Granzyme B, which is a member of the granzyme serine protease family. Granzyme B is found in the granules of cytotoxic T cells and NK cells. Granzyme B has also been described as CGL1 (cathepsin G-like-1), a serine protease expressed only in cytotoxic T-lymphocytes after cell activation, and CTLA-1 (cytotoxic T lymphocyte-associated serine esterase 1) based on identification of mRNA in various cytotoxic T cells, but not observed in non-cytotoxic lymphoid cells. Granzyme B is crucial for the rapid induction of target cell death by apoptosis, induced by interaction with cytotoxic T cells. The receptor involved has been identified as mannose 6-phosphate receptor. This receptor functions as a death receptor for Granzyme B during cytotoxic T cell-induced apoptosis. This NGZB monoclonal antibody does not crossreact to human Granzyme B nor is staining blocked with GB11, suggesting it recognizes a different epitope.

### Applications Reported

This NGZB antibody has been reported for use in intracellular staining and flow cytometric analysis.

### Applications Tested

This NGZB antibody has been tested by intracellular staining and flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Kapp JA, Honjo K, Kapp LM, Xu XY, Cozier A, Bucy RP. TCR transgenic CD8+ T cells activated in the presence of TGFbeta express FoxP3 and mediate linked suppression of primary immune responses and cardiac allograft rejection. *Int Immunol.* 2006; 1-14.

Smyth MJ, Trapani JA. Granzymes: exogenous proteinases that induce target cell apoptosis. *Immunol Today.* 1995 Apr;16(4):202-6.

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## **Anti-Mouse Granzyme B PE**

**Catalog Number:** 12-8898

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### **Related Products**

00-4980 Protein Transport Inhibitor Cocktail (500X)  
00-8222 IC Fixation Buffer  
00-8333 Permeabilization Buffer (10X)  
12-4321 Rat IgG2a K Isotype Control PE (eBR2a)  
16-0031 Anti-Mouse CD3e Functional Grade Purified (145-2C11)  
16-0281 Anti-Mouse CD28 Functional Grade Purified (37.51)  
45-0081 Anti-Mouse CD8a PerCP-Cy5.5 (53-6.7)  
88-8823 Fixation & Permeabilization Buffers