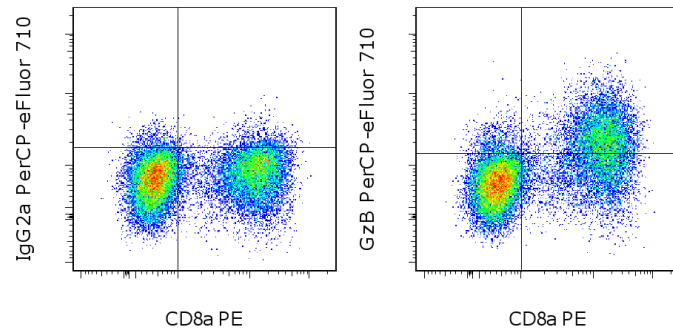


## Anti-Mouse Granzyme B PerCP-eFluor<sup>®</sup> 710

**Catalog Number:** 46-8898

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

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



Intracellular staining of 3-day Anti-Mouse CD3 and Anti-Mouse CD28 Functional Grade Purified (cat. 16-0031 and 16-0281)-stimulated C57Bl/6 splenocytes with Anti-Mouse CD8a PE (cat. 12-0081) and 0.03 ug of Rat IgG2a K Isotype Control PerCP-eFluor<sup>®</sup> 710 (cat. 46-4321) (left) or 0.03 ug of Anti-Mouse Granzyme B PerCP-eFluor<sup>®</sup> 710 (right). Total viable cells, as determined by Fixable Viability Dye eFluor<sup>®</sup> 450, were used for analysis.

### Product Information

**Contents:** Anti-Mouse Granzyme B PerCP-eFluor<sup>®</sup> 710

**REF** **Catalog Number:** 46-8898

**Clone:** NGZB

**Concentration:** 0.2 mg/mL

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

**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

**Contains sodium azide**



### 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 followed by flow cytometric analysis.

### Applications Tested

This NGZB antibody has been tested by intracellular staining and flow cytometric analysis of stimulated mouse splenocytes. This can be used at less than or equal to 0.06 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.

PerCP-eFluor<sup>®</sup> 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor<sup>®</sup> 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor<sup>®</sup> 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

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### **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.

### **Related Products**

00-4975 Cell Stimulation Cocktail (plus protein transport inhibitors) (500X)

12-0081 Anti-Mouse CD8a PE (53-6.7)

16-0031 Anti-Mouse CD3e Functional Grade Purified (145-2C11)

16-0281 Anti-Mouse CD28 Functional Grade Purified (37.51)

46-4321 Rat IgG2a K Isotype Control PerCP-eFluor<sup>®</sup> 710 (eBR2a)

65-0863 Fixable Viability Dye eFluor<sup>®</sup> 450

88-8823 Fixation & Permeabilization Buffers

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