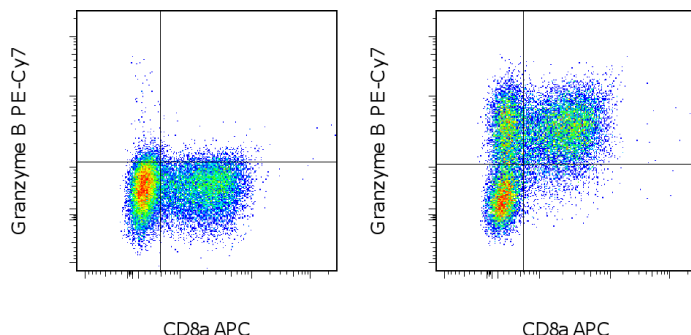


Anti-Mouse Granzyme B PE-Cyanine7

Catalog Number: 25-8898

Also known as: CGL1, CTLA-1

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



C57Bl/6 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 APC (cat. 17-0081) followed by intracellular staining with 0.06 ug of Rat IgG2a K Isotype Control PE-Cyanine7 (cat. 25-4321) (left) or 0.06 ug of Anti-Mouse Granzyme B PE-Cyanine7 (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse Granzyme B PE-Cyanine7

REF **Catalog Number:** 25-8898

Clone: NGZB

Concentration: 0.5 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. This tandem dye is sensitive to photo-induced oxidation. Protect this vial from light during storage, handling & experimental procedures.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium azide



LOT



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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL IC Fixation

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Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

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

00-4980 Protein Transport Inhibitor Cocktail (500X)
16-0031 Anti-Mouse CD3e Functional Grade Purified (145-2C11)
16-0281 Anti-Mouse CD28 Functional Grade Purified (37.51)
17-0081 Anti-Mouse CD8a APC (53-6.7)
25-4321 Rat IgG2a K Isotype Control PE-Cyanine7 (eBR2a)

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