

## Anti-Mouse Granzyme B Alexa Fluor® 647 (To Be Discontinued. Refer to Alternative Product Catalog number 51-8898)

**Catalog Number:** 51-8822

**Also Known As:** GrzB, GrB

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

### Product Information

**Contents:** Anti-Mouse Granzyme B Alexa Fluor® 647 (To Be Discontinued. Refer to Alternative Product Catalog number 51-8898)


 **Catalog Number:** 51-8822

**Clone:** 16G6

**Concentration:** 0.2 mg/ml


**Host/Isotype:** Rat IgG2b, 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

 **Caution, contains Azide**

### Description

The 16G6 antibody reacts with mouse Granzyme B (GrB) which is a member of the granzyme serine protease family. GrB 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. GrB has been called 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. GrB 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.

**For intracellular staining and flow cytometric analysis with direct conjugates of anti-mouse Granzyme B, it is highly recommended to use the Foxp3 Staining Buffer Set (cat. 00-5523). Other buffers may yield varying results. For more information, please contact technical support at [tech@ebioscience.com](mailto:tech@ebioscience.com).**

### Applications Reported

This 16G6 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

### Applications Tested

This 16G6 antibody has been tested by intracellular staining and flow cytometric analysis of paraformaldehyde-fixed/saponin-permeabilized IL-2 stimulated 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

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Smyth, M., et al. 1995. Granzymes: exogenous proteinases that induce target cell apoptosis. *Immunol Today*. 16: 202-206.

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Rininsland, F., et al. 2000. Granzyme B ELISPOT assay for ex vivo measurements of T cell immunity. *J Immunol Meth*. 240:143-155.

### Related Products

## 51-4031 Rat IgG2b K Isotype Control Alexa Fluor® 647

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