

Product Data Sheet

Alexa Fluor® 647 anti-human/mouse Granzyme B

Catalog # / Size: 515405 / 25 tests

Clone: GB11

Isotype: Mouse IgG1, κ

Reactivity: Human, Mouse, **Cross-Reactivity:** Rat

Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 647.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**

Applications:

Applications: ICFC - *Quality tested*

Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is 5 μ l per million cells or 5 μ l per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.

** Alexa Fluor® 647 is a registered trademark of Molecular Probes, Inc. Alexa Fluor® 647 dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

Application References:

1. Wever PC, *et al.* 1998. *Immunology*. 93:383
2. Arens R, *et al.* 2004. *J. Exp. Med.* 199:1595
3. Lima M, *et al.* 2003. *Am. J. Pathol.* 163:763

Description: Granzyme B is a 32 kD serine protease, also known as granzyme-2, serine protease B, CCP1, Asp-ase, and CTLA-1. Granzyme B is abundantly stored in the granules of cytotoxic T lymphocytes and NK cells. Low level of expression has been reported in granulocytes, B cells, and activated dendritic cells. Granzyme B is crucial for rapid induction of cell death and apoptosis through interaction with mannose-6-phosphate receptor.

Antigen References:

1. Estebanez-Perpina E, *et al.* 2000. *Biol. Chem.* 381:1203
2. Griffiths GM. And S. Isaaz, *et al.* 1993. *J. Cell Biol.* 120:885
3. Spaeny-Dekking EH, *et al.* 1998. *J. Immunol.* 160:3610
4. Wagner C, *et al.* 2008. *Mol. Immunol.* 45:1761

Related Products:

Product
Alexa Fluor® 647 Mouse IgG1, κ Isotype
Ctrl (ICFC)
Cell Staining Buffer
RBC Lysis Buffer (10X)

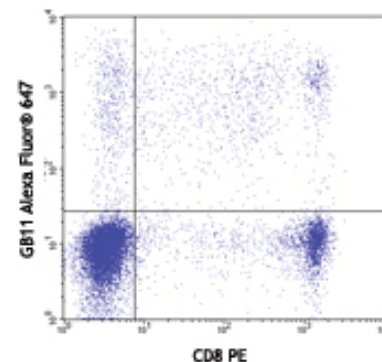
Clone

MOPC-21

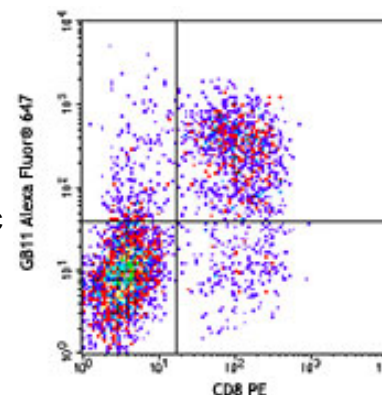
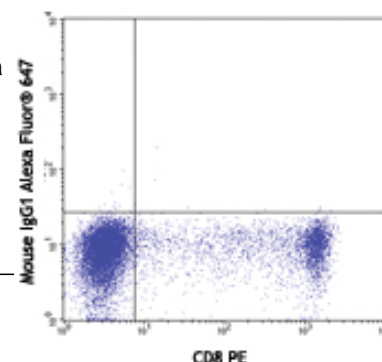
Application

ICFC, IF

FC, ICC, ICFC
FC, ICFC



Human peripheral blood lymphocytes were surface stained with CD8 PE, then intracellularly stained with Granzyme B (clone GB11) Alexa Fluor® 647 (top) or mouse IgG1 Alexa Fluor® 647 isotype control (middle).



C57BL/6 mouse splenocytes were stimulated with plate-bound anti-mouse TCR- β for 2 days, then surface stained with CD8 PE and intracellularly stained with Granzyme B (clone GB11) Alexa Fluor® 647.



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