

Alexa Fluor® 647 anti-mouse Granzyme B Antibody

Catalog# / Size	168805 / 25 µg 168806 / 100 µg
Clone	S23006A
Regulatory Status	RUO
Other Names	Granzyme-2, serine protease B, CCP1, Asp-ase, CTLA-1
Isotype	Rat IgG1, λ
Description	Granzyme B, also known as granzyme-2, serine protease B, CCP1, Asp-ase, and CTLA-1, is a 32 kD serine protease. 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.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions.
Concentration	0.5 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	ICFC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 µg per million cells in 100 µL volume. 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 633 nm / 635 nm. Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation. View full statement regarding label licenses
Excitation Laser	Red Laser (633 nm)
Application Notes	Clones S23006A and GB11 partially block each other.

Antigen Details

Structure	32 kD serine protease
Distribution	Cytotoxic T-cells and NK cells, low on granulocytes, B cells and activated dendritic cells
Function	Induction of cell death and apoptosis

Ligand/Receptor	Mannose-6-phosphate receptor
Cell Type	Neutrophils, T cells
Biology Area	Cell Biology, Immunology, Innate Immunity, Neuroscience
Molecular Family	Enzymes and Regulators, Proteases
Antigen References	1. Estebanez-Perpina E, <i>et al.</i> 2000. <i>Biol Chem.</i> 381:1203. 2. Griffiths GM. and S. Isaza, <i>et al.</i> 1993. <i>J. Cell Biol.</i> 120:885. 3. Spaeny-Dekking EH, <i>et al.</i> 1998. <i>J. Immunol.</i> 160:3610. 4. Wagner C, <i>et al.</i> 2008. <i>Mol. Immunol.</i> 45:1761.

Gene ID [14939](#)

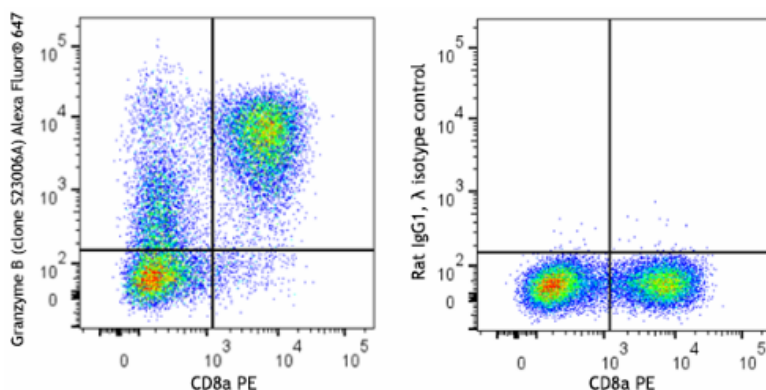
Related Protocols

- [Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse Granzyme B, PE anti-mouse Granzyme B, Alexa Fluor® 647 anti-mouse Granzyme B

Product Data



C57BL/6 mouse splenocytes were stimulated with plate-bound Ultra-LEAF™ purified anti-mouse TCR β chain (Cat. No. 109254) for 2 days, and surface stained with anti-mouse CD8a (clone 53-6.7) PE. Cells were then fixed and permeabilized with Cyto-Fast™ Fix/Perm Buffer Set (Cat. No. 426803) and intracellularly stained with anti-mouse Granzyme B (clone S23006A) Alexa Fluor® 647 (left) or rat IgG1, λ Alexa Fluor® 647 isotype control (right).

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8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587