

PerCP anti-human/mouse Granzyme B Recombinant Antibody

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| Catalog# / Size | 396415 / 25 tests 396416 / 100 tests |
| Clone | QA18A28 |
| Regulatory Status | RUO |
| Other Names | Granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1, GZMB, CCP1, Asp-ase Granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1, GZMB, CCP1, Asp-ase |
| Isotype | Rat IgG1, κ |
| 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. |

Product Details

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| Verified Reactivity | Human, Mouse |
| Antibody Type | Recombinant |
| Host Species | Rat |
| Formulation | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA) |
| Preparation | The antibody was purified by affinity chromatography and conjugated with PerCP under optimal conditions. |
| Concentration | Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.) |
| 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 5 μ L per million cells in 100 μ L staining volume 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. * PerCP has a maximum absorption of 482 nm and a maximum emission of 675 nm. |
| Excitation Laser | Blue Laser (488 nm) |
| Application Notes | Clone QA18A28 is compatible with Fixation buffer (Cat. No. 420801) and Intracellular Staining Permeabilization Wash Buffer (Cat. No. 421002) in both C57BL/6 splenocytes and human PBMC. QA18A28 is also compatible with True-Nuclear™ Transcription Factor Buffer Set (Cat. No. 424401). |
| RRID | AB_2924597 (BioLegend Cat. No. 396415) AB_2924597 (BioLegend Cat. No. 396416) |

Antigen Details

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| Structure | 32 kD serine protease |
| Distribution | Cytotoxic T cells, NK cells, and neutrophils, low on granulocytes, B cells and activated dendritic cells |

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| Function | Granzyme B is able to induce target cell apoptosis by activating caspase independent pathways. Granzyme B is induced in CD8 ⁺ T lymphocytes with ConA/ IL-2 and CD4 ⁺ T lymphocytes with anti CD3/CD28 or CD3/CD46. |
| Interaction | Caspase-3 |
| 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 | <ol style="list-style-type: none"> 1. Estebanez-Perpina E, <i>et al.</i> 2000. <i>Biol Chem.</i> 381:1203. 2. Griffiths GM. And S. Isaaz, <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 [3002](#)
[14939](#)

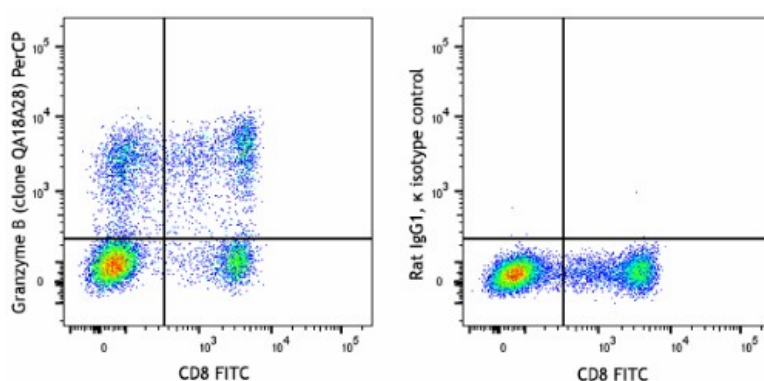
Related Protocols

[Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

PE anti-human/mouse Granzyme B Recombinant Antibody, FITC anti-human/mouse Granzyme B Recombinant Antibody, APC anti-human/mouse Granzyme B Recombinant Antibody, PE/Cyanine7 anti-human/mouse Granzyme B Recombinant Antibody, Brilliant Violet 421™ anti-human/mouse Granzyme B Recombinant Antibody, PerCP/Cyanine5.5 anti-human/mouse Granzyme B Recombinant Antibody, Purified anti-human/mouse Granzyme B Recombinant Antibody, PerCP anti-human/mouse Granzyme B Recombinant Antibody, APC/Fire™ 750 anti-human/mouse Granzyme B Recombinant Antibody, Pacific Blue™ anti-human/mouse Granzyme B Recombinant Antibody, Alexa Fluor® 647 anti-human/mouse Granzyme B Recombinant Antibody, Alexa Fluor® 488 anti-human/mouse Granzyme B Recombinant Antibody, Alexa Fluor® 700 anti-human/mouse Granzyme B Recombinant Antibody, PE/Dazzle™ 594 anti-human/mouse Granzyme B Recombinant Antibody

Product Data



Human peripheral blood mononuclear cells were stained with anti-human CD8 FITC, then fixed, permeabilized, and intracellularly stained with anti-human/mouse Granzyme B (clone QA18A28) PerCP (left) or rat IgG1, κ PerCP isotype control (right).

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