

Brilliant Violet 421™ anti-mouse CD7 Antibody

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| Catalog# / Size | 167105 / 50 µg |
| Clone | S23010B |
| Regulatory Status | RUO |
| Isotype | Rat IgG1, κ |
| Description | CD7, also known as Leu-9, is an approximately 40 kD glycosylated and palmitoylated transmembrane protein in the immunoglobulin superfamily. The extracellular domain of mature mouse CD7 shares 43% and 81% amino acid sequence similarity with human and rat CD7, respectively. Mouse CD7 mRNA has been found in thymus, spleen, bone marrow, and small intestine. Both the ligand and function of mouse CD7 are not yet clear. |

Product Details

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|-------------------------------|---|
| Verified Reactivity | Mouse |
| Antibody Type | Monoclonal |
| Host Species | Rat |
| Immunogen | Mouse CD7-transfected cells |
| 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 Brilliant Violet 421™ under optimal conditions. |
| Concentration | 0.2 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 | FC - Quality tested |
| Recommended Usage | <p>Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.</p> <p>Learn more about Brilliant Violet™.</p> <p>This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.</p> |
| Excitation Laser | Violet Laser (405 nm) |
| RRID | AB_3698936 (BioLegend Cat. No. 167105) |

Antigen Details

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|------------------|---|
| Structure | Type I transmembrane glycoprotein; Ig superfamily |
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| Distribution | Mouse CD7 mRNA exists in thymus, spleen, bone marrow, and small intestine |
| Cell Type | Hematopoietic stem and progenitors, Leukemia, NK cells, T cells, Thymocytes |
| Biology Area | Costimulatory Molecules, Immunology |
| Molecular Family | CD Molecules |
| Antigen References | <ol style="list-style-type: none"> 1. Yoshikawa K, <i>et al.</i> 1993. <i>Immunogenetics</i>. 37:114-9. 2. Haynes BF, <i>et al.</i> 1999. <i>Crit Rev Immunol</i>. 19:331. 3. Bonilla FA, <i>et al.</i> 1997. <i>Int Immunol</i>. 9:1875. |

Gene ID [12516](#)

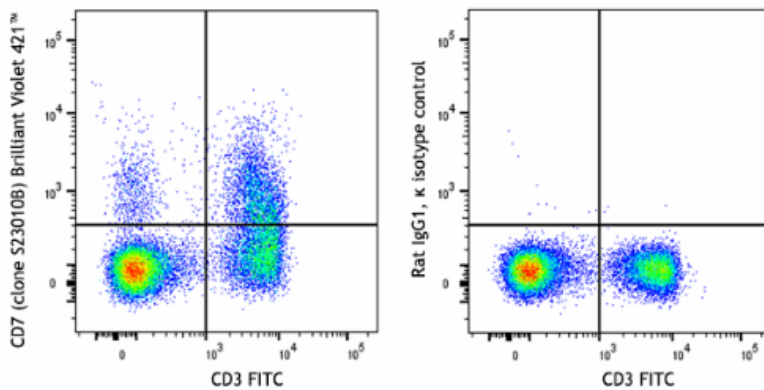
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse CD7, PE anti-mouse CD7, Brilliant Violet 421™ anti-mouse CD7, Biotin anti-mouse CD7

Product Data



C57BL/6 mouse splenocytes were stained with anti-mouse CD3 (clone 17A2) FITC and anti-mouse CD7 (clone S23010B) Brilliant Violet 421™ (left) or rat IgG1, κ Brilliant Violet 421™ isotype control (right).

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