

Spark PLUS B574™ anti-mouse CD7 Antibody

Catalog# / Size	167107 / 25 µg 167108 / 100 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

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
Preparation	The antibody was purified by affinity chromatography and conjugated with Spark PLUS B574™ 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	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 ≤ 1.0 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application. * Spark PLUS B574™ has a maximum excitation of 506 nm and a maximum emission of 574 nm.
Excitation Laser	Blue Laser (488 nm)
RRID	AB_3717245 (BioLegend Cat. No. 167107) AB_3717245 (BioLegend Cat. No. 167108)

Antigen Details

Structure	Type I transmembrane glycoprotein; Ig superfamily
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

1. Yoshikawa K, *et al.* 1993. *Immunogenetics*. 37:114-9.
2. Haynes BF, *et al.* 1999. *Crit Rev Immunol*. 19:331.
3. Bonilla FA, *et al.* 1997. *Int Immunol*. 9:1875.

Gene ID

[12516](#)

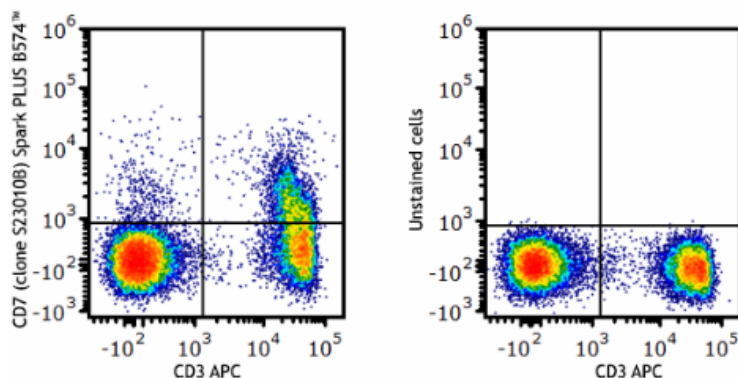
Related Protocols

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

Other Formats

PE anti-mouse CD7, Biotin anti-mouse CD7, Purified anti-mouse CD7, Brilliant Violet 421™ anti-mouse CD7, Spark PLUS B574™ anti-mouse CD7 Antibody

Product Data



C57BL/6 mouse splenocytes were stained with anti-mouse CD3 (clone 17A2) APC and anti-mouse CD7 (clone S23010B) Spark PLUS B574™ (left) or stained with anti-mouse CD3 (clone 17A2) APC only (right).

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