

PE/Cyanine7 anti-mouse CD5 Antibody

Catalog# / Size	100621 / 25 µg 100622 / 100 µg
Clone	53-7.3
Regulatory Status	RUO
Other Names	Lyt-1, Ly-1, T1, Tp67, Ly-12
Isotype	Rat IgG2a, κ
Description	CD5 is a 67 kD protein, also known as Lyt-1, Ly-1, T1, Tp67, or Ly-12. It is a member of the scavenger receptor cysteine-rich protein superfamily (SRCR) and primarily expressed on thymocytes, T cells, and B-1 cells. Although mature α/β T cells express high levels of CD5, very few γ/δ T cells express this antigen. The interaction of CD5 with CD72, gp35-37, TCR, or BCR is involved in T and B cell activation.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Mouse thymus or spleen
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 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 ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	Additional reported applications (for the relevant formats) include: immunoprecipitation ¹ , and immunohistochemistry ² of acetone-fixed frozen tissue sections, zinc-fixed paraffin-embedded sections and formalin-fixed paraffin-embedded sections.
Additional Product Notes	BioLegend is in the process of converting the name PE/Cy7 to PE/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our PE/Cyanine7 products. Please contact Technical Service if you have any questions.
Application References	
(PubMed link indicates BioLegend citation)	1. Ledbetter JA, <i>et al.</i> 1979. <i>Immunol. Rev.</i> 47:63. (IP) 2. Ledbetter JA, <i>et al.</i> 1980. <i>J. Exp. Med.</i> 152:280. (FC, IHC) 3. Bourdeau A, <i>et al.</i> 2007. <i>Blood</i> doi:10.1182/blood-2006-08-044370.
Product Citations	1. Fan L, <i>et al.</i> 2020. <i>J Immunol Res.</i> 2020:3032425. PubMed 2. Lentucci C, <i>et al.</i> 2017. <i>J Biol Chem.</i> 292:2754-2772. PubMed 3. Lehmann-Horn K, <i>et al.</i> 2016. <i>Neurol Neuroimmunol Neuroinflamm.</i> 3: e212. PubMed 4. Wang X, <i>et al.</i> 2016. <i>PLoS Pathog.</i> 12: 1005367. PubMed 5. Das S, <i>et al.</i> 2019. <i>Oncogene.</i> 383316. PubMed

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RRID AB_2562772 (BioLegend Cat. No. 100621)
 AB_2562773 (BioLegend Cat. No. 100622)

Antigen Details

Structure	Member of the scavenger receptor cysteine-rich protein superfamily (SRCR), 67 kD
Distribution	Thymocytes, T cells, B-1 cells
Function	Negative regulator of T-B cell interaction
Ligand/Receptor	CD72, gp35-37
Cell Type	B cells, T cells, Thymocytes
Biology Area	Costimulatory Molecules, Immunology
Molecular Family	CD Molecules
Antigen References	<ol style="list-style-type: none"> 1. Barclay A, <i>et al.</i> 1997. <i>The Leukocyte Antigen FactsBook</i> Academic Press. 2. Kipps TJ. 1988. <i>Adv. Immunol</i>. 47:117. 3. Antin JH, <i>et al.</i> 1985. <i>J. Immunol</i>. 136:505. 4. Tarakhovsky A, <i>et al.</i> 1995. <i>Science</i> 269:535.
Gene ID	12507

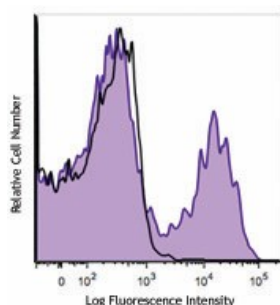
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Biotin anti-mouse CD5, FITC anti-mouse CD5, PE anti-mouse CD5, PE/Cyanine5 anti-mouse CD5, Purified anti-mouse CD5, Brilliant Violet 510™ anti-mouse CD5, Alexa Fluor® 488 anti-mouse CD5, Alexa Fluor® 647 anti-mouse CD5, PerCP anti-mouse CD5, Brilliant Violet 421™ anti-mouse CD5, PE/Cyanine7 anti-mouse CD5, Purified anti-mouse CD5 (Maxpar® Ready), PerCP/Cyanine5.5 anti-mouse CD5, APC anti-mouse CD5, Alexa Fluor® 594 anti-mouse CD5, APC/Fire™ 750 anti-mouse CD5, Alexa Fluor® 700 anti-mouse CD5, TotalSeq™-A0111 anti-mouse CD5, Brilliant Violet 711™ anti-mouse CD5, Pacific Blue™ anti-mouse CD5, PE/Dazzle™ 594 anti-mouse CD5, TotalSeq™-B0111 anti-mouse CD5, TotalSeq™-C0111 anti-mouse CD5, APC/Cyanine7 anti-mouse CD5

Product Data



C57BL/6 mouse splenocytes were stained with CD5 (clone 53-7.3) PE/Cyanine7 (filled histogram) or rat IgG2a, κ PE/Cyanine7 isotype control (open histogram).

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