

Alexa Fluor[®] 594 anti-mouse CD5 Antibody

Catalog# / Size	100632 / 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 Alexa Fluor [®] 594 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	IHC-F - Quality tested
Recommended Usage	<p>Each lot of this antibody is quality control tested by immunohistochemical staining on frozen tissue sections. For immunohistochemistry, a concentration range of 0.1 - 10 µg/ml µg/ml is suggested. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>* Alexa Fluor[®] 594 has an excitation maximum of 590 nm, and a maximum emission of 617 nm.</p> <p>Alexa Fluor[®] and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p>View full statement regarding label licenses</p>
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.
Application References	<ol style="list-style-type: none">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.
(PubMed link indicates BioLegend citation)	
RRID	AB_2566434 (BioLegend Cat. No. 100632)

Antigen Details

Structure	Member of the scavenger receptor cysteine-rich protein superfamily (SRCR), 67 kD
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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 T.J. 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

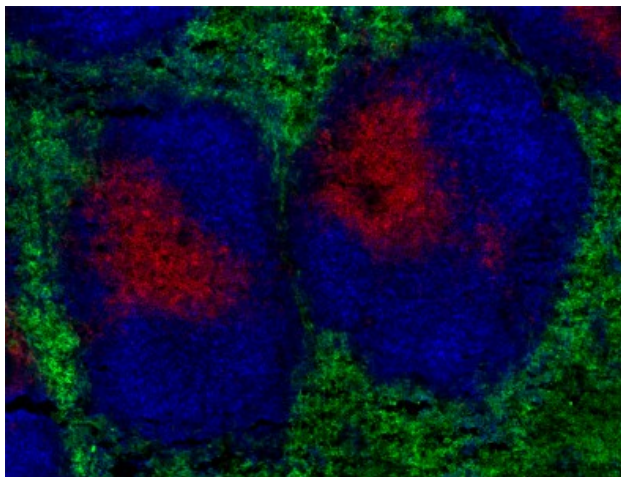
Related Protocols

[Immunocytochemistry 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 frozen spleen section was fixed with 4% paraformaldehyde (PFA) for 10 minutes at room temperature and blocked with 5% FBS plus 5% rat/mouse serum for 30 minutes at room temperature. Then the section was stained with 5 µg/ml of CD5 (clone 53-7.3) Alexa Fluor® 594 (red), 5 µg/ml of F4/80 (clone BM8) Alexa Fluor® 647 (green), and 5 µg/ml of CD45R/B220 (clone RA3-6B2) Brilliant Violet™ 421 (blue) overnight at 4°C. The image was captured with a 10X objective.

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