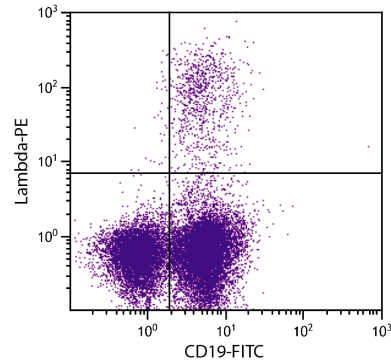




Rat Anti-Mouse Lambda

Cat. No.	Format	Size
1175-01	Purified (UNLB)	0.5 mg
1175-02	Fluorescein (FITC)	0.5 mg
1175-04	Alkaline Phosphatase (AP)	1.0 mL
1175-05	Horseradish Peroxidase (HRP)	1.0 mL
1175-08	Biotin (BIOT)	0.5 mg
1175-09	R-phycoerythrin (PE)	0.1 mg
1175-09L	R-phycoerythrin (PE)	0.2 mg



BALB/c mouse splenocytes were stained with Rat Anti-Mouse Lambda-PE (SB Cat. No. 1175-09) and Rat Anti-Mouse CD19-FITC (SB Cat. No. 1575-02).

Overview

Clone	JC5-1
Isotype	Rat IgG _{2b} k
Immunogen	Unknown
Specificity	Mouse λ

Applications

FC – Quality tested ¹⁻¹⁴
 ELISA – Quality tested
 FLISA – Quality tested
 IHC-FS – Reported in literature ^{15,16}
 WB-NR ¹⁸
 Sep – Reported in literature ¹⁷

Working Dilutions

Flow Cytometry	FITC and BIOT conjugates	$\leq 1 \mu\text{g}/10^6 \text{ cells}$
	PE conjugate	$\leq 0.2 \mu\text{g}/10^6 \text{ cells}$
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL	
ELISA	AP conjugate	1:1,000 – 1:4,000
	HRP conjugate	1:4,000 – 1:8,000
	BIOT conjugate	1:5,000 – 1:10,000
FLISA	FITC conjugate	1:200 – 1:400
	PE conjugate	$\leq 1 \mu\text{g}/\text{mL}$
Other Applications	Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.	

For Research Use Only. Not for Diagnostic or Therapeutic Use.

Handling and Storage

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The alkaline phosphatase (AP) conjugate is supplied as 1.0 mL of stock solution in 50 mM Tris/1 mM MgCl₂/50% glycerol, pH 8.0, containing NaN₃ as preservative. Store at 2-8°C or long-term at -20°C.
- The horseradish peroxidase (HRP) conjugate is supplied as 1.0 mL of stock solution in 50% glycerol/50% PBS, pH 7.4. No preservative added. Store at 2-8°C or long-term at -20°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL or 0.2 mg in 2.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific (M)SDS.

References

1. Heltemes-Harris L, Liu X, Manser T. Progressive surface B cell antigen receptor down-regulation accompanies efficient development of antinuclear antigen B cells to mature, follicular phenotype. *J Immunol.* 2004;172:823-33. (FC)
2. Wang Y, Carter RH. CD19 regulates B cell maturation, proliferation, and positive selection in the FDC zone of murine splenic germinal centers. *Immunity.* 2005;22:749-61. (FC)
3. O'Neill SK, Shlomchik MJ, Glant TT, Cao Y, Doodles PD, Finnegan A. Antigen-specific B cells are required as APCs and autoantibody-producing cells for induction of severe autoimmune arthritis. *J Immunol.* 2005;174:3781-8. (FC)
4. Bai L, Chen Y, He Y, Dai X, Lin X, Wen R, et al. Phospholipase C γ 2 contributes to light-chain gene activation and receptor editing. *Mol Cell Biol.* 2007;27:5957-67. (FC)
5. Lindsley RC, Thomas M, Srivastava B, Allman D. Generation of peripheral B cells occurs via two spatially and temporally distinct pathways. *Blood.* 2007;109:2521-8. (FC)
6. Pathak S, Ma S, Trinh L, Lu R. A role for interferon regulatory factor 4 in receptor editing. *Mol Cell Biol.* 2008;28:2815-24. (FC)
7. Gross AJ, Lyandres JR, Panigrahi AK, Prak ET, DeFranco AL. Developmental acquisition of the Lyn-CD22-SHP-1 inhibitory pathway promotes B cell tolerance. *J Immunol.* 2009;182:5382-92. (FC)
8. Stumhofer JS, Tait ED, Quinn WJ 3rd, Hosken N, Spudy B, Goenka R, et al. A role for IL-27p28 as an antagonist of gp130-mediated signaling. *Nat Immunol.* 2010;11:1119-26. (FC)
9. Rayamajhi M, Delgado C, Condon TV, Riches DW, Lenz LL. Lung B cells promote early pathogen dissemination and hasten death from inhalation anthrax. *Mucosal Immunol.* 2012;5:444-54. (FC)
10. Andrews SF, Zhang Q, Lim S, Li L, Lee J, Zheng N, et al. Global analysis of B cell selection using an immunoglobulin light chain-mediated model of autoreactivity. *J Exp Med.* 2013;210:125-42. (FC)
11. Peng C, Eckhardt LA. Role of the Igh intronic enhancer E μ in clonal selection at the pre-B to immature B cell transition. *J Immunol.* 2013;191:4399-411. (FC)
12. Nechanitzky R, Akbas D, Scherer S, Györy I, Hoyler T, Ramamoorthy S, et al. Transcription factor EBF1 is essential for the maintenance of B cell identity and prevention of alternative fates in committed cells. *Nat Immunol.* 2013;14:867-75. (FC)
13. Lee E, Liang Q, Ali H, Bayliss L, Beasley A, Bloomfield-Gerdes T, et al. Complete humanization of the mouse immunoglobulin loci enables efficient therapeutic antibody discovery. *Nat Biotechnol.* 2014;32:356-63. (FC)
14. Hu J, Oda SK, Shotts K, Donovan EE, Strauch P, Pujanauskis LM, et al. Lysophosphatidic acid receptor 5 inhibits B cell antigen receptor signaling and antibody response. *J Immunol.* 2014;193:85-95. (FC)
15. Källberg E, Leanderson T. A subset of dendritic cells express joining chain (J-chain) protein. *Immunology.* 2008;123:590-9. (IHC-FS)
16. Swanson CL, Wilson TJ, Strauch P, Colonna M, Pelanda R, Torres RM. Type I IFN enhances follicular B cell contribution to the T cell-independent antibody response. *J Exp Med.* 2010;207:1485-1500. (IHC-FS)
17. Xiang Y, Garrard WT. The downstream transcriptional enhancer, Ed, positively regulates mouse Ig κ gene expression and somatic hypermutation. *J Immunol.* 2008;180:6725-32. (Sep)
18. SouthernBiotech unpublished data (WB-NR)