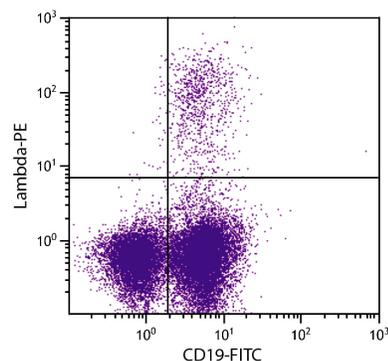




## Rat Anti-Mouse Lambda

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

<b>Clone</b>	JC5-1
<b>Isotype</b>	Rat IgG <sub>2b</sub> k
<b>Immunogen</b>	Unknown
<b>Specificity</b>	Mouse $\lambda$

### Applications

FC – Quality tested<sup>1-14</sup>  
 ELISA – Quality tested  
 FLISA – Quality tested  
 IHC-FS – Reported in literature<sup>15,16</sup>  
 WB-NR<sup>18</sup>  
 Sep – Reported in literature<sup>17</sup>

### Working Dilutions

<b>Flow Cytometry</b>	FITC and BIOT conjugates	$\leq 1 \mu\text{g}/10^6$ cells
	PE conjugate	$\leq 0.2 \mu\text{g}/10^6$ cells
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 $\mu\text{L}$	
<b>ELISA</b>	AP conjugate	1:1,000 – 1:4,000
	HRP conjugate	1:4,000 – 1:8,000
	BIOT conjugate	1:5,000 – 1:10,000
<b>FLISA</b>	FITC conjugate	1:200 – 1:400
	PE conjugate	$\leq 1 \mu\text{g}/\text{mL}$
<b>Other Applications</b>	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.**

Corporate Offices: 160 Oxmoor Blvd • Birmingham, AL 35209 • USA Mailing Address: P.O. Box 26221 • Birmingham, AL 35260 • USA

Tel: 205.945.1774 • U.S. and Canada: 800.722.2255 • Fax: 205.945.8768

Email: [info@southernbiotech.com](mailto:info@southernbiotech.com) • Website: [www.southernbiotech.com](http://www.southernbiotech.com)

## 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/NaN<sub>3</sub>. 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 MgCl<sub>2</sub>/50% glycerol, pH 8.0, containing NaN<sub>3</sub> 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/NaN<sub>3</sub>. 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/NaN<sub>3</sub> 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 $\gamma$ 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 3<sup>rd</sup>, 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 $\mu$  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  $\kappa$  gene expression and somatic hypermutation. *J Immunol.* 2008;180:6725-32. (Sep)
18. SouthernBiotech unpublished data (WB-NR)