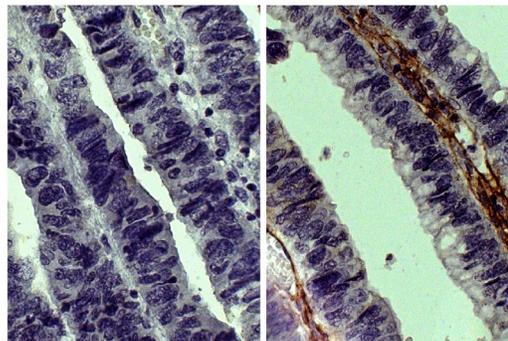




## Goat IgG Isotype Control

Cat. No.	Format	Size
0109-01	Purified (UNLB)	10 mg
0109-02	Fluorescein (FITC)	100 tests
0109-03	Rhodamine (TRITC)	100 tests
0109-07	Texas Red® (TXRD)	100 tests
0109-08	Biotin (BIOT)	0.5 mg
0109-09	R-phycoerythrin (PE)	100 tests
0109-11	Allophycocyanin (APC)	100 tests
0109-13	Spectral Red® (SPRD)	100 tests
0109-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg
0109-30	Alexa Fluor® 488 (AF488)	100 tests
0109-31	Alexa Fluor® 647 (AF467)	100 tests



Paraffin embedded human gastric cancer tissue was stained with Goat IgG-UNLB isotype control (SB Cat. No. 0109-01; left) and Goat Anti-Type III Collagen-UNLB (SB Cat. No. 1330-01; right) followed by Swine Anti-Goat IgG(H+L), Human/Rat/Mouse SP ads-HRP (SB Cat. No. 6300-05), DAB, and hematoxylin.

### Description

<b>Isotype</b>	Goat IgG
<b>Source</b>	Normal goat serum

### Applications

Quality tested applications include –

FC<sup>1-4</sup>  
ELISA  
FLISA

Other referenced applications include –

IHC-FS<sup>5-7</sup>  
IHC-PS<sup>8</sup>  
IHC-WM<sup>18</sup>  
ICC<sup>19,20</sup>  
IP<sup>21</sup>  
Block<sup>4,9,10</sup>  
*In vitro* control<sup>11-15</sup>  
*In vivo* control<sup>16,17</sup>

### Working Dilutions

<b>Flow Cytometry</b>	BIOT conjugate	≤ 1 µg/10 <sup>6</sup> cells
	FITC, PE, APC, SPRD, AF488, and AF647 conjugates	10 µL/10 <sup>6</sup> cells
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 µL	
<b>FLISA</b>	TRITC and TXRD conjugates	1:100 – 1:400
<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) IgG is supplied as 10.0 mg of purified immunoglobulin in 2.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The fluorescein (FITC), rhodamine (TRITC), Texas Red® (TXRD), Alexa Fluor® 647 (AF647), and Alexa Fluor® 488 (AF488) conjugates are supplied as 100 tests in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The biotin (BIOT) conjugate is as 0.5 mg in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The R-phycoerythrin (PE) and allophycocyanin (APC) conjugates are supplied as 100 tests in 1.0 mL of PBS/NaN<sub>3</sub> and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Spectral Red® (SPRD) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN<sub>3</sub> and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of PBS. Contains no preservative; handle under aseptic conditions. Store at 2-8°C or aliquot into smaller volumes and store at -20°C. Avoid multiple freeze / thaw cycles.
- 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 SDS.

## References

1. Harriman GR, Kunimoto DY, Elliott JF, Paetkau V, Strober W. The role of IL-5 in IgA B cell differentiation. *J Immunol.* 1988;140:3033-39. (FC)
2. Pospisil R, Young-Cooper GO, Mage RG. Preferential expansion and survival of B lymphocytes based on V<sub>H</sub> framework 1 and framework 3 expression: "positive" selection in appendix of normal and V<sub>H</sub>-mutant rabbits. *Proc Natl Acad Sci USA.* 1995;92:6961-5. (FC)
3. Milpied P, Renard A, Bruneau J, Mendes-da-Cruz DA, Jacquelin S, Asnafi V, et al. Neuropilin-1 is not a marker of human Foxp3<sup>+</sup> Treg. *Eur J Immunol.* 2009;39:1466-71. (FC)
4. Saiya-Cork K, Collins R, Parkin B, Ouillette P, Kuizon E, Kujawski L, et al. A pathobiological role of the insulin receptor in chronic lymphocytic leukemia. *Clin Cancer Res.* 2011;17:2679-92. (FC, Block)
5. Sleeman MA, Watson JD, Murison JG. Neonatal murine epidermal cells express a functional multidrug-resistant pump. *J Invest Dermatol.* 2000;115:19-23. (IHC-FS)
6. Annunziato F, Cosmi L, Liotta F, Lazzeri E, Manetti R, Vanini V, et al. Phenotype, localization, and mechanism of suppression of CD4<sup>+</sup>CD25<sup>+</sup> human thymocytes. *J Exp Med.* 2002;196:379-87. (IHC-FS)
7. Menke J, Zeller GC, Kikawada E, Means TK, Huang XR, Lan HY, et al. CXCL9, but not CXCL10, promotes CXCR3-dependent immune-mediated kidney disease. *J Am Soc Nephrol.* 2008;19:1177-89. (IHC-FS)
8. Tamura M, Aizawa R, Hori M, Ozaki H. Progressive renal dysfunction and macrophage infiltration in interstitial fibrosis in an adenine-induced tubulointerstitial nephritis mouse model. *Histochem Cell Biol.* 2009;131:483-90. (IHC-PS)
9. Boesze-Battaglia K, Besack D, McKay T, Zekavat A, Otis L, Jordan-Sciutto K, et al. Cholesterol-rich membrane microdomains mediate cell cycle arrest induced by Actinobacillus actinomycetemcomitans cytolethal-distending toxin. *Cell Microbiol.* 2006;8:823-36. (Block)
10. Pepin AC, Tandon R, Cattori V, Niederer E, Riond B, Willi B, et al. Cellular segregation of feline leukemia provirus and viral RNA in leukocyte subsets of long-term experimentally infected cats. *Virus Res.* 2007;127:9-16. (Block)
11. Mierke CT, Ballmaier M, Werner U, Manns MP, Welte K, Bischoff SC. Human endothelial cells regulate survival and proliferation of human mast cells. *J Exp Med.* 2000;192:801-11. (*In vitro* control)
12. Sato H, Wang D, Kudo A. Dissociation of Pax-5 from KI and KII sites during  $\kappa$ -chain gene rearrangement correlates with its association with the underphosphorylated form of retinoblastoma. *J Immunol.* 2001;166:6704-10. (*In vitro* control)
13. Petlickovski A, Laurenti L, Li X, Marietti S, Chiusolo P, Sica S, et al. Sustained signaling through the B-cell receptor induces Mcl-1 and promotes survival of chronic lymphocytic leukemia B cells. *Blood.* 2005;105:4820-7. (*In vitro* control)
14. Zizzo G, Hilliard BA, Monestier M, Cohen PL. Efficient clearance of early apoptotic cells by human macrophages requires M2c polarization and MerTK induction. *J Immunol.* 2012;189:3508-20. (*In vitro* control)
15. Li H, Usas A, Poddar M, Chen C, Thompson S, Ahani B, et al. Platelet-rich plasma promotes the proliferation of human muscle derived progenitor cells and maintains their stemness. *PLoS One.* 2013;8(6):e64923. (*In vitro* control)
16. Lo JC, Chin RK, Lee Y, Kang H, Wang Y, Weinstock JV, et al. Differential regulation of CCL21 in lymphoid/nonlymphoid tissues for effectively attracting T cells to peripheral tissues. *J Clin Invest.* 2003;112:1495-505. (*In vivo* control)
17. Shchors K, Shchors E, Rostker F, Lawlor ER, Brown-Swigart L, Evan GI. The Myc-dependent angiogenic switch in tumors is mediated by interleukin 1 $\beta$ . *Genes Dev.* 2006;20:2527-38. (*In vivo* control)
18. Lämmermann T, Afonso PV, Angermann BR, Wang JM, Kastenmüller W, Parent CA, et al. Neutrophil swarms require LTB4 and integrins at sites of cell death in vivo. *Nature.* 2013;498:371-5. (IHC-WM)
19. Hauser SP, Waldron JA, Upuda KB, Lipschitz DA. Morphological characterization of stromal cell types in hematopoietically active long-term murine bone marrow cultures. *J Histochem Cytochem.* 1995;43:371-9. (ICC)
20. Hsieh-Bonassera ND, Wu I, Lin JK, Schumacher BL, Chen AC, Masuda K, et al. Expansion and redifferentiation of chondrocytes from osteoarthritic cartilage: cells for human cartilage tissue engineering. *Tissue Eng Part A.* 2009;15:3513-23. (ICC)
21. Kishimoto N, Onitsuka A, Kido K, Takamune N, Shoji S, Misumi S. Glyceraldehyde 3-phosphate dehydrogenase negatively regulates human immunodeficiency virus type 1 infection. *Retrovirology.* 2012;9:107. (IP)

Spectral Red® is a registered trademark of Southern Biotechnology Associates, Inc.

Spectral Red® is a PE/CY5 tandem conjugate.

Cy™ is a trademark of Cytiva or one of its subsidiaries.

Alexa Fluor® 488, 647, 700 and Pacific Blue™ are provided under an agreement between Molecular Probes, Inc. (a wholly owned subsidiary of Invitrogen Corporation), and Southern Biotechnology Associates, Inc., and the manufacture, use, sale or import of this product may be subject to one or more U.S. patents, pending applications, and corresponding non-U.S. equivalents, owned by Molecular Probes, Inc. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The buyer cannot sell or otherwise transfer (a) this product (b) its components or (c) materials made using this product or its components to a third party or otherwise use this product or its components or materials made using this product or its components for Commercial Purposes. Commercial Purposes means any activity by a party for consideration and may include, but is not limited to: (1) use of the product or its components in manufacturing; (2) use of the product or its components to provide a service, information, or data; (3) use of the product or its components for therapeutic, diagnostic or prophylactic purposes; or (4) resale of the product or its components, whether or not such product or its components are resold for use in research. For information on purchasing a license to this product for any other use, contact Molecular Probes, Inc., Business Development, 29851 Willow Creek Road, Eugene, OR 97402, USA, Tel: (541) 465-8300. Fax: (541) 335-0504.

TB0109

07-Oct-21

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)