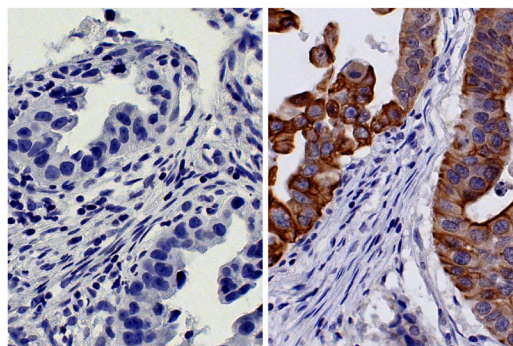




Mouse IgG_{2b} Isotype Control

Cat. No.	Format	Size
0104-01	Purified (UNLB)	1.0 mg
0104-02	Fluorescein (FITC)	100 tests
0104-04	Alkaline Phosphatase (AP)	1.0 mL
0104-05	Horseradish Peroxidase (HRP)	1.0 mL
0104-08	Biotin (BIOT)	0.5 mg
0104-09	R-phycoerythrin (PE)	100 tests
0104-11	Allophycocyanin (APC)	100 tests
0104-12	Cyanine 3 (CY3)	100 tests
0104-13	Spectral Red [®] (SPRD)	100 tests
0104-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg
0104-15	Cyanine 5 (CY5)	100 tests
0104-16	R-phycoerythrin-Cyanine 5.5 (PE/CY5.5)	100 tests
0104-17	R-phycoerythrin-Cyanine 7 (PE/CY7)	100 tests
0104-18	Allophycocyanin-Cyanine 5.5 (APC/CY5.5)	100 tests
0104-19	Allophycocyanin-Cyanine 7 (APC/CY7)	100 tests
0104-27	Alexa Fluor [®] 700 (AF700)	100 tests
0104-28	Biotin-maleimide (BIMA)	0.5 mg



Paraffin embedded human gastric cancer tissue was stained with Mouse IgG_{2b}-HRP isotype control (SB Cat. No. 0104-05; left) and Mouse Anti-Cytokeratin 18-HRP (SB Cat. No. 10085-05; right) followed by DAB and hematoxylin.

Overview

Clone	A-1
Isotype	Mouse IgG _{2bκ}
Specificity	Chicken IgA

Applications

FC – Quality tested ⁷⁻¹¹
 ELISA – Quality tested ¹⁻⁶
 FLISA – Quality tested
 IHC-FS – Reported in literature ^{11,12}
 IHC-PS ¹⁴
In vitro control – Reported in literature ⁷

Working Dilutions

Flow Cytometry	Purified (UNLB) antibody	≤ 1 μg/10 ⁶ cells
	BIOT conjugate	≤ 1 μg/10 ⁶ cells
	FITC, PE, APC, CY3, SPRD, CY5, PE/CY5.5, PE/CY7, APC/CY5.5, APC/CY7, and AF700 conjugates	10 μL/10 ⁶ cells
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL	
ELISA	Purified (UNLB) antibody	1 - 5 μg/mL
	AP and HRP conjugates	1:2,000 – 1:4,000
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.

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 • Website: www.southernbiotech.com

Handling and Storage

- The purified (UNLB) antibody is supplied as 1.0 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), Cyanine 3 (CY3), Cyanine 5 (CY5), and Alexa Fluor® 700 (AF700) conjugates are supplied as 100 tests in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The alkaline phosphatase (AP) conjugate is supplied as 1.0 mL in a stock solution of 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 in a stock solution of 50% glycerol/50% PBS, pH 7.4. No preservative added. Store at 2-8°C or long-term at -20°C.
- The biotin (BIOT) and biotin-maleimide (BIMA) conjugates are supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) and allophycocyanin (APC) conjugates are supplied as 100 tests in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Spectral Red® (SPRD), R-phycoerythrin-Cyanine 5.5 (PE/CY5.5), R-phycoerythrin-Cyanine 7 (PE/CY7), allophycocyanin-Cyanine 5.5 (APC/CY5.5) and allophycocyanin-Cyanine 7 (APC/CY7) conjugates are supplied as 100 tests in 1.0 mL of PBS/NaN₃ 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. **Aliquot and store at or below -20°C.**
- 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. Beger E, Deocharan B, Edelman M, Erlich B, Gu Y, Putterman C. A peptide DNA surrogate accelerates autoimmune manifestations and nephritis in lupus-prone mice. *J Immunol.* 2002;168:3617-26. (ELISA)
2. Roopenian DC, Christianson GJ, Sproule TJ, Brown AC, Akilesh S, Jung N, et al. The MHC class I-like IgG receptor controls perinatal IgG transport, IgG homeostasis, and fate of IgG-Fc-coupled drugs. *J Immunol.* 2003;170:3528-33. (ELISA)
3. Maier M, Seabrook TJ, Lemere CA. Modulation of the humoral and cellular immune response in Aβ immunotherapy by the adjuvants monophosphoryl lipid A (MPL), cholera toxin B subunit (CTB) and E. coli enterotoxin LT(R192G). *Vaccine.* 2005;23:5149-59. (ELISA)
4. Patterson HC, Kraus M, Wang D, Shahsafaei A, Henderson JM, Seagal J, et al. Cytoplasmic Igα serine/threonines fine-tune Ig α tyrosine phosphorylation and limit bone marrow plasma cell formation. *J Immunol.* 2011;187:2853-8. (ELISA)
5. Halemano K, Guo K, Heilman KJ, Barrett BS, Smith DS, Hasenkrug KJ, et al. Immunoglobulin somatic hypermutation by APOBEC3/Rfv3 during retroviral infection. *Proc Natl Acad Sci USA.* 2014;111:7759-64. (ELISA)
6. Vogelzang A, McGuire HM, Liu SM, Gloss B, Mercado K, Earls P, et al. IL-21 contributes to fatal inflammatory disease in the absence of Foxp3⁺ T regulatory cells. *J Immunol.* 2014;192:1404-14. (ELISA)
7. 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. (FC, *in vitro* control)
8. Cosmi L, Liotta F, Lazzeri E, Francalanci M, Angeli R, Mazzinghi B, et al. Human CD8⁺CD25⁺ thymocytes share phenotypic and functional features with CD4⁺CD25⁺ regulatory thymocytes. *Blood.* 2003;102:4107-14. (FC)
9. Charentantanakul W, Platt R, Roth JA. Effects of porcine reproductive and respiratory syndrome virus-infected antigen-presenting cells on T cell activation and antiviral cytokine production. *Viral Immunol.* 2006;19:646-61. (FC)
10. Ghimire TR, Benson RA, Garside P, Brewer JM. Alum increases antigen uptake, reduces antigen degradation and sustains antigen presentation by DCs *in vitro*. *Immunol Lett.* 2012;147:55-62. (FC)
11. Yoon S, Zhang X, Lee IY, Spencer N, Vo P, Choi YS. CD9 is a novel marker for plasma cell precursors in human germinal centers. *Biochem Biophys Res Commun.* 2013;431:41-6. (FC, IHC-FS)
12. Annunziato F, Cosmi L, Liotta F, Lazzeri E, Manetti R, Vanini V, et al. Phenotype, localization, and mechanism of suppression of CD4⁺CD25⁺ human thymocytes. *J Exp Med.* 2002;196:379-87. (IHC-FS)
13. Xia Y, Janda A, Eryilmaz E, Casadevall A, Putterman C. The constant region affects antigen binding of antibodies to DNA by altering secondary structure. *Mol Immunol.* 2013;56:28-37. (Circular dichroism spectroscopy protein control)
14. SouthernBiotech published data (IHC-PS)

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

Spectral Red® is a PE/CY5 tandem conjugate.

Cy® is a registered trademark of GE Healthcare.

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.