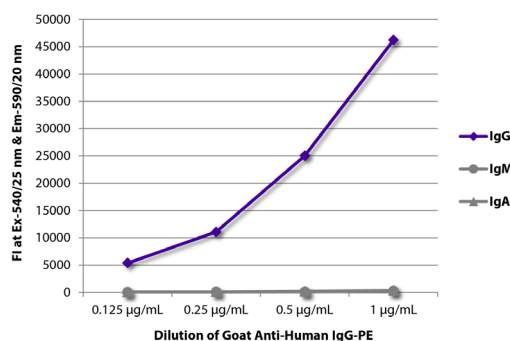




Goat Anti-Human IgG

Cat. No.	Format	Size
2040-01	Purified (UNLB)	1.0 mg
2040-02	Fluorescein (FITC)	1.0 mg
2040-03	Rhodamine (TRITC)	1.0 mg
2040-04	Alkaline Phosphatase (AP)	1.0 mL
2040-05	Horseradish Peroxidase (HRP)	1.0 mL
2040-06	β -galactosidase (BGAL)	1.0 mL
2040-07	Texas Red [®] (TXRD)	1.0 mg
2040-08	Biotin (BIOT)	1.0 mg
2040-09	R-phycoerythrin (PE)	0.5 mg
2040-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg
2040-30	Alexa Fluor [®] 488 (AF488)	1.0 mg
2040-31	Alexa Fluor [®] 647 (AF647)	1.0 mg
2040-32	Alexa Fluor [®] 555 (AF555)	1.0 mg



FLISA plate was coated with purified human IgG, IgM, and IgA. Immunoglobulins were detected with serially diluted Goat Anti-Human IgG-PE (SB Cat. No. 2040-09).

Description

Specificity	Reacts with the heavy chain of human IgG
Source	Pooled antisera from goats hyperimmunized with human IgG
Cross Adsorption	Human IgM and IgA; may react with IgG from other species
Purification	Affinity chromatography on human IgG covalently linked to agarose

Applications

Quality tested applications include –

ELISA ²⁻⁵
 FLISA ⁶
 FC ^{1,10,13,14}

Other referenced applications include –

ELISPOT ^{2,3,11}
 IHC-FS ^{7,8}
 IHC-PS ⁹
 ICC ¹⁰⁻¹²
 WB ^{4,12,17,18}
 IP ¹⁹
 Multiplex ^{3,15,16}
 Depletion ^{14,20}

Working Dilutions

ELISA	AP conjugate	1:2,000 – 1:4,000
	HRP conjugate	1:4,000 – 1:8,000
	BGAL conjugate	1:500
	BIOT conjugate	1:5,000 – 1:20,000
FLISA	FITC, TRITC, TXRD, AF488, and AF555 conjugates	1:100 – 1:400
	PE and AF647 conjugates	≤ 1 µg/mL
Flow Cytometry	Purified (UNLB) antibody	≤ 1 µg/10 ⁶ cells
	FITC, AF488, and BIOT conjugates	≤ 1 µg/10 ⁶ cells
	PE and AF647 conjugates	≤ 0.1 µg/10 ⁶ cells
For flow cytometry, the suggested use of these reagents is in a final volume of 100 µL		
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 1.0 mg 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), rhodamine (TRITC), Texas Red® (TXRD), Alexa Fluor® 488 (AF488), Alexa Fluor® 555 (AF555), and Alexa Fluor® 647 (AF647) conjugates are supplied as 1.0 mg 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 β-galactosidase (BGAL) conjugate is supplied as 1.0 mL in a stock solution of 50% glycerol/50% PBS containing NaN₃ as preservative. Store at 2-8°C or long-term at -20°C.
- The biotin (BIOT) conjugate is supplied as 1.0 mg in 2.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.5 mg 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. 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. Gilewski T, Adluri S, Ragupathi G, Zhang S, Yao T, Panageas K, et al. Vaccination of high-risk breast cancer patients with mucin-1 (MUC1) keyhole limpet hemocyanin conjugate plus QS-21. *Clin Cancer Res.* 2000;6:1693-1701. (FC)
2. Traggiati E, Volpi S, Schena F, Gattorno M, Ferlito F, Moretta L, et al. Bone marrow-derived mesenchymal stem cells induce both polyclonal expansion and differentiation of B cells isolated from healthy donors and systemic lupus erythematosus patients. *Stem Cells.* 2008;26:562-9. (ELISA, ELISPOT)
3. Staats HF, Kirwan SM, Whisnant CC, Stephenson JL, Wagener DK, Majumder PP. Development of a bead immunoassay to measure Vi polysaccharide-specific serum IgG after vaccination with the Salmonella enterica serovar Typhi Vi polysaccharide. *Clin Vaccine Immunol.* 2010;17:412-9. (ELISA, Multiplex)
4. Lai H, Engle M, Fuchs A, Keller T, Johnson S, Gorlatov S, et al. Monoclonal antibody produced in plants efficiently treats West Nile virus infection in mice. *Proc Natl Acad Sci USA.* 2010;107:2419-24. (ELISA, WB)
5. Kwa S, Lai L, Gangadhara S, Siddiqui M, Pillai VB, Labranche C, et al. CD40L-adjuvanted DNA/modified vaccinia virus Ankara simian immunodeficiency virus SIV239 vaccine enhances SIV-specific humoral and cellular immunity and improves protection against a heterologous SIVE660 mucosal challenge. *J Virol.* 2014;88:9579-89. (ELISA)
6. Spensieri F, Borgogni E, Zedda L, Bardelli M, Buricchi F, Volpini G, et al. Human circulating influenza-CD4⁺ ICOS⁺IL-21⁺ T cells expand after vaccination, exert helper function, and predict antibody responses. *Proc Natl Acad Sci USA.* 2013;110:14330-5. (FLISA)
7. Borrego L, Maynard B, Peterson EA, George T, Iglesias L, Peters MS, et al. Deposition of eosinophil granule proteins precedes blister formation in bullous pemphigoid. Comparison with neutrophil and mast cell granule proteins. *Am J Pathol.* 1996;148:897-909. (IHC-FS)
8. Forshammar J, Isaksson S, Strid H, Stotzer P, Sjövall H, Simrén M, et al. A pilot study of colonic B cell pattern in irritable bowel syndrome. *Scand J Gastroenterol.* 2008;43:1461-6. (IHC-FS)
9. Rowley AH, Shulman ST, Mask CA, Finn LS, Terai M, Baker SC, et al. IgA plasma cell infiltration of proximal respiratory tract, pancreas, kidney, and coronary artery in acute Kawasaki disease. *J Infect Dis.* 2000;182:1183-91. (IHC-PS)
10. Oritani K, Kincade PW. Identification of stromal cell products that interact with pre-B cells. *J Cell Biol.* 1996;134:771-82. (ICC, FC)
11. Always IP, Xu Y, Basker M, Wu C, Buhler L, Lambrigts D, et al. Effects of specific anti-B and/or anti-plasma cell immunotherapy on antibody production in baboons: depletion of CD20- and CD22-positive B cells does not result in significantly decreased production of anti-αGal antibody. *Xenotransplantation.* 2001;8:157-71. (ICC, ELISPOT)
12. Hasegawa H, Forte C, Barber I, Turmbaugh S, Stoops J, Shen M, et al. Modulation of in vivo IgG crystallization in the secretory pathway by heavy chain isotype class switching and N-linked glycosylation. *Biochim Biophys Acta.* 2014;1843:1325-38. (ICC, WB)
13. Kudo K, Imai C, Lorenzini P, Kamiya T, Kono K, Davidoff AM, et al. T lymphocytes expressing a CD16 signaling receptor exert antibody-dependent cancer cell killing. *Cancer Res.* 2014;74:93-103. (FC)
14. Dryer RL, Covey LR. Use of chromatin immunoprecipitation (ChIP) to detect transcription factor binding to highly homologous promoters in chromatin isolated from unstimulated and activated primary human B cells. *Biol Proced Online.* 2006;8:44-54. (FC, Depletion)
15. Pochechueva T, Chinarev A, Bovin N, Fedier A, Jacob F, Heinzelmann-Schwarz V. PEGylation of microbead surfaces reduces unspecific antibody binding in glycan-based suspension array. *J Immunol Methods.* 2014;412:42-52. (Multiplex)
16. Pickering JW, Larson MT, Martins TB, Copple SS, Hill HR. Elimination of false-positive results in a luminex assay for pneumococcal antibodies. *Clin Vaccine Immunol.* 2010;17:185-9. (Multiplex)
17. Tran M, Zhou B, Pettersson PL, Gonzalez MJ, Mayfield SP. Synthesis and assembly of a full-length human monoclonal antibody in algal chloroplasts. *Biotechnol Bioeng.* 2009;104:663-73. (WB)
18. Phoolcharoen W, Bhoo SH, Lai H, Ma J, Arntzen CJ, Chen Q, et al. Expression of an immunogenic Ebola immune complex in *Nicotiana benthamiana*. *Plant Biotechnol J.* 2011;9:807-16. (WB)
19. Santiago T, Kulemzin SV, Reshetnikova ES, Chikaev NA, Volkova OY, Mechetina LV, et al. FCRLA is a resident endoplasmic reticulum protein that associates with intracellular Igs, IgM, IgG and IgA. *Int Immunol.* 2011;23:43-53. (IP)
20. Palaia JM, McConnell M, Achenbach JE, Gustafson CE, Stoermer KA, Nolan M, et al. Neutralization of HIV subtypes A and D by breast milk IgG from women with HIV infection in Uganda. *J Infect.* 2014;68:264-72. (Depletion)

Texas Red® is a registered trademark of Molecular Probes, Inc.

Alexa Fluor® 488, 647, and 555 are provided under an Intellectual property license from Life Technologies Corporation. 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 Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@lifetech.com.

TB2040
08-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 • Website: www.southernbiotech.com