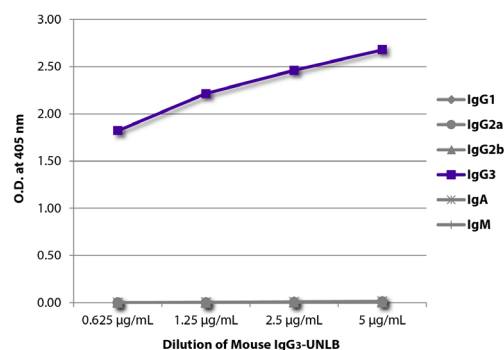




Mouse IgG₃ Isotype Control

Cat. No.	Format	Size
0105-01	Purified (UNLB)	1.0 mg
0105-02	Fluorescein (FITC)	100 tests
0105-04	Alkaline Phosphatase (AP)	1.0 mL
0105-05	Horseradish Peroxidase (HRP)	1.0 mL
0105-08	Biotin (BIOT)	0.5 mg
0105-09	R-phycoerythrin (PE)	100 tests
0105-11	Allophycocyanin (APC)	100 tests
0105-13	Spectral Red® (SPRD)	100 tests
0105-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg
0105-17	R-phycoerythrin-Cyanine 7 (PE/CY7)	100 tests
0105-31	Alexa Fluor® 647 (AF647)	100 tests



ELISA plate was coated with serially diluted Mouse IgG₃-UNLB (SB Cat. No. 0105-01). Immunoglobulin was detected with Goat Anti-Mouse IgG₁, Human ads-BIOT (SB Cat. No. 1070-08), Goat Anti-Mouse IgG_{2a}, Human ads-BIOT (SB Cat. No. 1080-08), Goat Anti-Mouse IgG_{2b}, Human ads-BIOT (SB Cat. No. 1090-08), Goat Anti-Mouse IgG₃, Human ads-BIOT (SB Cat. No. 1100-08), Goat Anti-Mouse IgA-BIOT (SB Cat. No. 1040-08), and Goat Anti-Mouse IgM, Human ads-BIOT (SB Cat. No. 1020-08) followed by Streptavidin-HRP (SB Cat. No. 7100-05) and quantified.

Overview

Clone	B10
Isotype	Mouse IgG ₃ λ
Specificity	Unknown

Applications

FC – Quality tested ⁷⁻¹⁰
 ELISA – Quality tested ¹⁻⁶
 FLISA – Quality tested
 ICC – Reported in literature ^{11,12}
 IP – Reported in literature ¹²
In vitro control – Reported in literature ^{7,13}

Working Dilutions

Flow Cytometry	Purified (UNLB) antibody	≤ 1 μg/10 ⁶ cells
	BIOT conjugate	≤ 1 μg/10 ⁶ cells
	FITC, PE, APC, SPRD, CY5, PE/CY7, and AF647 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 conjugate	1:2,000 – 1:4,000
	HRP conjugate	1:4,000 – 1:8,000
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.

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) and Alexa Fluor® 647 (AF647) 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) conjugate is 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) and R-phycoerythrin-Cyanine 7 (PE/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. 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. 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. Dharmasena MN, Krebs SJ, Taylor RK. Characterization of a novel protective monoclonal antibody that recognizes an epitope common to *Vibrio cholerae* Ogawa and Inaba serotypes. *Microbiology.* 2009;155:2353-64. (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. Chaparral JR, Barral P, Vannier J, Borel V, Steger M, Tomas-Loba A, et al. RIF1 is essential for 53BP1-dependent nonhomologous end joining and suppression of DNA double-strand break resection. *Mol Cell.* 2013;49:858-71. (ELISA)
6. 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)
7. Helfand SC, Dickerson EB, Munson KL, Padilla ML. GD3 ganglioside antibody augments tumoricidal capacity of canine blood mononuclear cells by induction of interleukin 12. *Cancer Res.* 1999;59:3119-27. (FC, *in vitro* control)
8. Kim G, Wang Z, Liu YY, Stavrou S, Mathias A, Goodwin KJ, et al. A fold-back single-chain diabody format enhances the bioactivity of an anti-monkey CD3 recombinant diphtheria toxin-based immunotoxin. *Protein Eng Des Sel.* 2007;20:425-32. (FC)
9. Mueller KL, Thomas MS, Burbach BJ, Peterson EJ, Shimizu Y. Adhesion and degranulation-promoting adapter protein (ADAP) positively regulates T cell sensitivity to antigen and T cell survival. *J Immunol.* 2007;179:3559-69. (FC)
10. Gordy LE, Bezbradica JS, Flyak AI, Spencer CT, Dunkle A, Sun J, et al. IL-15 regulates homeostasis and terminal maturation of NKT cells. *J Immunol.* 2011;187:6335-45. (FC)
11. Sleeman KE, Kendrick H, Ashworth A, Isacke CM, Smalley MJ. CD24 staining of mouse mammary gland cells defines luminal epithelial, myoepithelial/basal and non-epithelial cells. *Breast Cancer Res.* 2006;8:R7. (ICC)
12. Arredouani MS, Palecanda A, Koziel H, Huang Y, Imrich A, Sulahian TH, et al. MARCO is the major binding receptor for unopsonized particles and bacteria on human alveolar macrophages. *J Immunol.* 2005;175:6058-64. (IP, ICC)
13. Nandakumar KS, Johansson BP, Björk L, Holmdahl R. Blocking of experimental arthritis by cleavage of IgG antibodies *in vivo*. *Arthritis Rheum.* 2007;56:3253-60. (*In vitro* control)
14. 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)

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