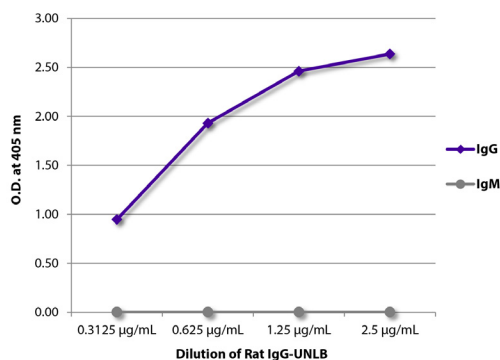




Rat IgG Isotype Control

Cat. No.	Format	Size
0108-01	Purified (UNLB)	10 mg
0108-02	Fluorescein (FITC)	0.5 mg
0108-08	Biotin (BIOT)	0.5 mg
0108-09	R-phycoerythrin (PE)	0.1 mg
0108-10	R-phycoerythrin-Texas Red® (PE/TXRD)	0.1 mg
0108-11	Allophycocyanin (APC)	0.1 mg
0108-13	Spectral Red® (SPRD)	0.1 mg
0108-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg
0108-15	Cyanine 5 (CY5)	0.5 mg
0108-16	R-phycoerythrin-Cyanine 5.5 (PE/CY5.5)	0.1 mg
0108-17	R-phycoerythrin-Cyanine 7 (PE/CY7)	0.1 mg
0108-18	Allophycocyanin-Cyanine 5.5 (APC/CY5.5)	0.1 mg



ELISA plate was coated with serially diluted Rat IgG-UNLB (SB Cat. No. 0108-01). Immunoglobulin was detected with Goat Anti-Rat IgG-BIOT (SB Cat. No. 3030-08) and Mouse Anti-Rat IgM-BIOT (SB Cat. No. 3080-08) followed by Streptavidin-HRP (SB Cat No. 7100-05) and quantified.

Description

Isotype	Rat IgG
Source	Normal rat serum

Applications

Quality tested applications include –

FC^{3-9,16}
 ELISA^{1,2}
 FLISA

Other referenced applications include –

IHC-PS^{10,17}
 IHC-FS¹⁸
 ICC^{11,19}
 Block¹²
In vivo control^{13-15,20,21}

Working Dilutions

Flow Cytometry	FITC and BIOT conjugates	≤ 1 µg/10 ⁶ cells
	PE, PE/TXRD, APC, SPRD, CY5, PE/CY5.5, PE/CY7, and APC/CY5.5 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) IgG is supplied as 10 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) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°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 0.1 mg 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 R-phycoerythrin-Texas Red[®] (PE/TXRD) conjugates are supplied as 0.1 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. **Aliquot and store at or below -20°C.**
- The Cyanine 5 (CY5) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°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. Doymaz MZ, Rouse BT. Herpetic stromal keratitis: an immunopathologic disease mediated by CD4⁺ T lymphocytes. *Invest Ophthalmol Vis Sci.* 1992;33:2165-73. (ELISA)
2. 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. (ELISA)
3. Garbe A, Buck J, Hämmerling U. Retinoids are important cofactors in T cell activation. *J Exp Med.* 1992;176:109-17. (FC)
4. 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)
5. Abernethy NJ, Hagan C, Tan PL, Watson JD. Dysregulated expression of CD69 and IL-2 receptor α and β chains on CD8⁺ T lymphocytes in flaky skin mice. *Immunol Cell Biol.* 2000;78:596-602. (FC)
6. 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. (FC)
7. Cosmi L, Liotta F, Lazzeri E, Francalanci M, Angeli R, Mazinghi B, et al. Human CD8⁺CD25⁺ thymocytes share phenotypic and functional features with CD4⁺CD25⁺ regulatory thymocytes. *Blood.* 2003;102:4107-14. (FC)
8. Welner R, Swett DJ, Pelsue SC. Age-related loss of bone marrow pre-B- and immature B-lymphocytes in the autoimmune-prone flaky skin mutant mice. *Autoimmunity.* 2005;38:399-408. (FC)
9. Abbasi S, Shin D, Beaty N, Masiuk M, Chen S, Gonzalez-Garcia I, et al. Characterization of monoclonal antibodies to the plasma cell alloantigen ENPP1. *Hybridoma.* 2011;30:11-17. (FC)
10. Almholt K, Lund LR, Rygaard J, Nielsen BS, Danø K, Rømer J, et al. Reduced metastasis of transgenic mammary cancer in urokinase-deficient mice. *Int J Cancer.* 2005;113:525-32. (IHC-PS)
11. Lu DP, Tian L, O'Neill C, King NJ. Regulation of cellular adhesion molecule expression in murine oocytes, peri-implantation and post-implantation embryos. *Cell Res.* 2002;12:373-83. (ICC)
12. 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)
13. Broudy VC, Lin NL, Priestley GV, Nocka K, Wolf NS. Interaction of stem cell factor and its receptor c-kit mediates lodgment and acute expansion of hematopoietic cells in the murine spleen. *Blood.* 1996;88:75-81. (*In vivo* control)
14. Cheng M, Nguyen M, Fantuzzi G, Koh TJ. Endogenous interferon- γ is required for efficient skeletal muscle regeneration. *Am J Physiol Cell Physiol.* 2008;294:C1183-91. (*In vivo* control)
15. Ma Y, Zhang X, Bao H, Mi S, Cai W, Yan H, et al. Toll-like receptor (TLR) 2 and TLR4 differentially regulate doxorubicin induced cardiomyopathy in mice. *PLoS One.* 2012;7(7):e40763. (*In vivo* control)
16. Mattsson N, Duzevik EG, Pelsue SC. Expansion of CD22^b B cells in the spleen of autoimmune-prone flaky skin mice. *Cell Immunol.* 2005;234:124-32. (FC)
17. Yukami T, Hasegawa M, Matsushita Y, Fujita T, Matsushita T, Horikawa M, et al. Endothelial selectins regulate skin wound healing in cooperation with L-selectin and ICAM-1. *J Leukoc Biol.* 2007;82:519-31. (IHC-PS)
18. Yoshizaki A, Iwata Y, Komura K, Ogawa F, Hara T, Muroi E, et al. CD19 regulates skin and lung fibrosis via Toll-like receptor signaling in a model of bleomycin-induced scleroderma. *Am J Pathol.* 2008;172:1650-63. (IHC-FS)
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. Milbauer LC, Enenstein JA, Roney M, Solovey A, Bodempudi V, Nichols TC, et al. Blood outgrowth endothelial cell migration and trapping in vivo: a window into gene therapy. *Transl Res.* 2009;153:179-89. (*In vivo* control)
21. Saino O, Taguchi A, Nakagomi T, Nakano-Doi A, Kashiwamura S, Doe N, et al. Immunodeficiency reduces neural stem/progenitor cell apoptosis and enhances neurogenesis in the cerebral cortex after stroke. *J Neurosci Res.* 2010;88:2385-97. (*In vivo* control)

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Cy[®] is a registered trademark of GE Healthcare.

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