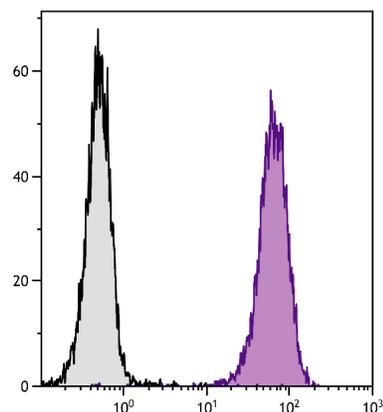




Goat Anti-Rat IgG(H+L), Mouse ads

Cat. No.	Format	Size
3050-01	Purified (UNLB)	1.0 mg
3050-02	Fluorescein (FITC)	1.0 mg
3050-03	Rhodamine (TRITC)	1.0 mg
3050-04	Alkaline Phosphatase (AP)	1.0 mL
3050-05	Horseradish Peroxidase (HRP)	1.0 mL
3050-06	β -galactosidase (BGAL)	1.0 mL
3050-07	Texas Red [®] (TXRD)	1.0 mg
3050-08	Biotin (BIOT)	1.0 mg
3050-09	R-phycoerythrin (PE)	0.5 mg
3050-09S	R-phycoerythrin (PE)	0.25 mg
3050-30	Alexa Fluor [®] 488 (AF488)	1.0 mg
3050-31	Alexa Fluor [®] 647 (AF647)	1.0 mg
3050-32	Alexa Fluor [®] 555 (AF555)	1.0 mg



BALB/c mouse splenocytes were stained with Rat Anti-Mouse CD45-UNLB (SB Cat. No. 1660-01) followed by Goat Anti-Rat IgG(H+L), Mouse ads-FITC (SB Cat. No. 3050-02).

Description

Specificity	Reacts with the heavy and light chains of rat IgG and the light chains of rat IgM
Source	Pooled antisera from goats hyperimmunized with rat IgG
Cross Adsorption	Mouse immunoglobulins and pooled sera; may react with immunoglobulins from other species
Purification	Affinity chromatography on pooled rat IgG covalently linked to agarose

Applications

Quality tested applications include –

ELISA¹⁻⁴
FLISA
FC⁵⁻¹⁰

Other referenced applications include –

IHC-FS¹¹⁻¹⁷
IHC-PS¹⁸⁻²⁰
ICC^{21,22}
WB²³⁻²⁵
Sep⁴

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 μ g/mL
Flow Cytometry	FITC, BIOT, and AF488 conjugates	≤ 1 μ g/10 ⁶ cells
	PE and AF647 conjugates	≤ 0.1 μ g/10 ⁶ cells
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 μ L	
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 of stock solution in 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 of stock solution in 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 of stock solution in 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 or 0.25 mg in 0.5 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- 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 (M)SDS.

References

1. Putterman C, Diamond B. Immunization with a peptide surrogate for double-stranded DNA (dsDNA) induces autoantibody production and renal immunoglobulin deposition. *J Exp Med.* 1998;188:29-38. (ELISA)
2. Yu KO, Im JS, Illarianov PA, Ndonge RM, Howell AR, Besra GS, et al. Production and characterization of monoclonal antibodies against complexes of the NKT cell ligand α-galactosylceramide bound to mouse CD1d. *J Immunol Methods.* 2007;323:11-23. (ELISA)
3. 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)
4. Hansen RJ, Brown RM, Lu J, Wroblewski VJ. Qualification of a free ligand assay in the presence of anti-ligand antibody Fab fragments. *Mabs.* 2013;5:288-96. (ELISA, Sep)
5. Pittet MJ, Zippelius A, Speiser DE, Assenmacher M, Guillaume P, Valmori D, et al. Ex vivo IFN-γ secretion by circulating CD8 T lymphocytes: implications of a novel approach for T cell monitoring in infectious and malignant diseases. *J Immunol.* 2001;166:7634-40. (FC)
6. Rizzardi GP, Harari A, Capiluppi B, Tambussi G, Ellefsen K, Ciuffreda D, et al. Treatment of primary HIV-1 infection with cyclosporin A coupled with highly active antiretroviral therapy. *J Clin Invest.* 2002;109:681-8. (FC)
7. Choi K, Kim J, Lee Y, Kim J, Suh B, Kim H, et al. Concurrent delivery of GM-CSF and B7-1 using an oncolytic adenovirus elicits potent antitumor effect. *Gene Ther.* 2006;13:1010-20. (FC)
8. Bossen C, Ingold K, Tardivel A, Bodmer J, Gaide O, Hertig S, et al. Interactions of tumor necrosis factor (TNF) and TNF receptor family members in the mouse and human. *J Biol Chem.* 2006;281:13964-71. (FC)
9. Ronconi E, Sagrinati C, Angelotti ML, Lazzeri E, Mazzinghi B, Ballerini L, et al. Regeneration of glomerular podocytes by human renal progenitors. *J Am Soc Nephrol.* 2009;20:322-32. (FC)
10. Long MA, Rossi FM. Targeted cell fusion facilitates stable heterokaryon generation in vitro and in vivo. *PLoS One.* 2011;6:e26381. (FC)
11. Csencsits KL, Jutila MA, Pascual DW. Nasal-associated lymphoid tissue: phenotypic and functional evidence for the primary role of peripheral node addressin in naive lymphocyte adhesion to high endothelial venules in a mucosal site. *J Immunol.* 1999;163:1382-9. (IHC-FS)
12. Manley HA, Lennon VA. Endoplasmic reticulum membrane-sorting protein of lymphocytes (BAP31) is highly expressed in neurons and discrete endocrine cells. *J Histochem Cytochem.* 2001;49:1235-43. (IHC-FS)
13. Yu P, Wang Y, Chin RK, Martinez-Pomares L, Gordon S, Kosco-Vibois MH, et al. B cells control the migration of a subset of dendritic cells into B cell follicles via CXC chemokine ligand 13 in a lymphotoxin-dependent fashion. *J Immunol.* 2002;168:5117-23. (IHC-FS)
14. Maehr R, Kraus M, Ploegh HL. Mice deficient in invariant-chain and MHC class II exhibit a normal mature B2 cell compartment. *Eur J Immunol.* 2004;34:2230-6. (IHC-FS)
15. He X, Schoeb TR, Panoskaltis-Mortari A, Zinn KR, Kesterson RA, Zhang J, et al. Deficiency of P-selectin or P-selectin glycoprotein ligand-1 leads to accelerated development of glomerulonephritis and increased expression of CC chemokine ligand 2 in lupus-prone mice. *J Immunol.* 2006;177:8748-56. (IHC-FS)
16. El Shikh ME, El Sayed RM, Wu Y, Szakal AK, Tew JG. TLR4 on follicular dendritic cells: an activation pathway that promotes accessory activity. *J Immunol.* 2007;179:4444-50. (IHC-FS)
17. Ubogu EE, Yosef N, Xia RH, Sheikh KA. Behavioral, electrophysiological, and histopathological characterization of a severe murine chronic demyelinating polyneuritis model. *J Peripher Nerv Syst.* 2012;17:53-61. (IHC-FS)
18. Cattoretti G, Angelin-Duclos C, Shakhovich R, Zhou H, Wang D, Aloheid B. PRDM1/Blimp-1 is expressed in human B-lymphocytes committed to the plasma cell lineage. *J Pathol.* 2005;206:76-86. (IHC-PS)
19. Lunsford KE, Home PH, Koester MA, Eiring AM, Walker JP, Dziema HL, et al. Activation and maturation of alloreactive CD4-independent, CD8⁺ cytolytic T cells. *Am J Transplant.* 2006;6:2268-81. (IHC-PS)
20. van den Borne P, Rygiel TP, Hoogendoorn A, Westertaken GH, Boon L, Quax PH, et al. The CD200-CD200 receptor inhibitory axis controls arteriogenesis and local T lymphocyte influx. *PLoS One.* 2014;9(6):e98820. (IHC-PS)
21. Elstner E, Linker-Israeli M, Said J, Umieł T, de Vos S, Shintaku IP, et al. 20-epi-vitamin D₃ analogues: a novel class of potent inhibitors of proliferation and inducers of differentiation of human breast cancer cell lines. *Cancer Res.* 1995;55:2822-30. (ICC)
22. Chung Y, Zhang N, Wooten RM. *Borrelia burgdorferi* elicited-IL-10 suppresses the production of inflammatory mediators, phagocytosis, and expression of co-stimulatory receptors by murine macrophages and/or dendritic cells. *PLoS One.* 2013;8(12):e84980. (ICC)
23. Tran TM, Satumtira N, Dorris ML, May E, Wang A, Furuta E, et al. HLA-B27 in transgenic rats forms disulfide-linked heavy chain oligomers and multimers that bind to the chaperone BiP. *J Immunol.* 2004;172:5110-9. (WB)
24. Ohta K, Mizuno A, Ueda M, Li S, Suzuki Y, Hida Y, et al. Autophagy impairment stimulates PS1 expression and γ-secretase activity. *Autophagy.* 2010;6:345-52. (WB)
25. Rice DS, Hansen GM, Liu F, Crist MJ, Newhouse MM, Potter D, et al. Keratinocyte migration in the developing eyelid requires LIMK2. *PLoS One.* 2012;7(10):e47168. (WB)

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