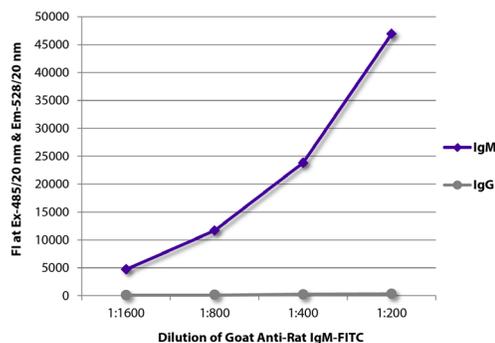




Goat Anti-Rat IgM

Cat. No.	Format	Size
3020-01	Purified (UNLB)	1.0 mg
3020-02	Fluorescein (FITC)	1.0 mg
3020-03	Rhodamine (TRITC)	1.0 mg
3020-04	Alkaline Phosphatase (AP)	1.0 mL
3020-05	Horseradish Peroxidase (HRP)	1.0 mL
3020-07	Texas Red® (TXRD)	1.0 mg
3020-08	Biotin (BIOT)	1.0 mg
3020-09	R-phycoerythrin (PE)	0.5 mg
3020-30	Alexa Fluor® 488 (AF488)	1.0 mg
3020-31	Alexa Fluor® 647 (AF647)	1.0 mg
3020-32	Alexa Fluor® 555 (AF555)	1.0 mg



FLISA plate was coated with purified rat IgM and IgG. Immunoglobulins were detected with serially diluted Goat Anti-Rat IgM-FITC (SB Cat. No. 3020-02).

Description

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

Applications

Quality tested applications include –

ELISA ¹⁻⁶
FLISA

Other referenced applications include –

FC ^{5,7-9}
IHC-FS ¹⁰⁻¹⁶
IHC-PS ¹⁷
ICC ^{18,19}
WB ^{17,20}

Working Dilutions

ELISA	AP conjugate	1:2,000 – 1:4,000
	HRP conjugate	1:4,000 – 1:8,000
	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

Other Applications Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.

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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 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!**
- 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. Zandvoort A, Lodewijk ME, Klok PA, Breukels MA, Rijkers GT, Timens W. After chemotherapy, functional humoral response capacity is restored before complete restoration of lymphoid compartments. *Clin Exp Immunol.* 2003;131:8-16. (ELISA)
2. Laumonier T, Mohacsi PJ, Matozan KM, Banz Y, Haeberli A, Korchagina EY, et al. Endothelial cell protection by dextran sulfate: a novel strategy to prevent acute vascular rejection in xenotransplantation. *Am J Transplant.* 2003;4:181-7. (ELISA)
3. Wernhoff P, Olofsson P, Holmdahl R. The genetic control of rheumatoid factor production in a rat model of rheumatoid arthritis. *Arthritis Rheum.* 2003;48:3584-96. (ELISA)
4. Sankaranarayanan S, Ma Y, Bryson MC, Li N, Ross AC. Neonatal-age treatment with vitamin A delays postweaning vitamin A deficiency and increases the antibody response to T-cell dependent antigens in young adult rats fed a vitamin A-deficient diet. *J Nutr.* 2007;137:1229-35. (ELISA)
5. Gao W. Fragmentation of the pancreatic beta-cell surface-specific antibody IC2. A potential biomarker for beta-cell mass imaging in vivo [thesis]. Uppsala (Sweden): Uppsala University; 2010. (ELISA, FC)
6. Eto Y, Yoshioka Y, Ishida T, Yao X, Morishige T, Narimatsu S, et al. Optimized PEGylated adenovirus vector reduces the anti-vector humoral immune response against adenovirus and induces a therapeutic effect against metastatic lung cancer. *Biol Pharm Bull.* 2010;33:1540-4. (ELISA)
7. Lang J, Nemazee D. B cell clonal elimination induced by membrane-bound self-antigen may require repeated antigen encounter or cell competition. *Eur J Immunol.* 2000;30:689-96. (FC)
8. Fernandez-Cabezudo MJ, Vijayarathay C, Pflugh DL, Bothwell AL, al-Ramadi BK. Evidence for a dual pathway of activation in CD43-stimulated Th2 cells: differential requirement for the Lck tyrosine kinase. *Int Immunol.* 2004;16:1215-23. (FC)
9. Chang K, Nelson AM, Fields PA, Hesson JL, Ulyanova T, Cao H, et al. Diverse hematopoietic potentials of five human embryonic stem cell lines. *Exp Cell Res.* 2008;314:2930-40. (FC)
10. O'Reilly LA, Healey D, Simpson E, Chandler P, Lund T, Ritter MA. Studies on the thymus of non-obese diabetic (NOD) mice: effect of transgene expression. *Immunology.* 1994;82:275-86. (IHC-FS)
11. Glatman-Freedman A, Mednick AJ, Lendvai N, Casadevall A. Clearance and organ distribution of Mycobacterium tuberculosis lipoarabinomannan (LAM) in the presence and absence of LAM-binding immunoglobulin M. *Infect Immun.* 2000;68:335-41. (IHC-FS)
12. Irjala H, Johansson E, Grenman R, Alanen K, Salmi M, Jalkanen S. Mannose receptor is a novel ligand for L-selectin and mediates lymphocyte binding to lymphatic endothelium. *J Exp Med.* 2001;194:1033-41. (IHC-FS)
13. Gale NW, Prevo R, Espinosa J, Ferguson DJ, Dominguez MG, Yancopoulos GD, et al. Normal lymphatic development and function in mice deficient for the lymphatic hyaluronan receptor LYVE-1. *Mol Cell Biol.* 2007;27:595-604. (IHC-FS)
14. 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)
15. Huizinga R, Easton AS, Donachie AM, Guthrie J, van Rijs W, Heikema A, et al. Sialylation of Campylobacter jejuni lipo-oligosaccharides: impact on phagocytosis and cytokine production in mice. *PLoS One.* 2012;7(3):e34416. (IHC-FS)
16. Duehrkop C, Banz Y, Spirig R, Miescher S, Nolte MW, Spycher M, et al. C1 esterase inhibitor reduces lower extremity ischemia/reperfusion injury and associated lung damage. *PLoS One.* 2013;8(8):e72059. (IHC-FS)
17. Afnan J, Ahmadi-Yazdi C, Sheu EG, Oakes SM, Moore FD Jr. Inhibition of rat gut reperfusion injury with an agent developed for the mouse. Evidence that amplification of injury by innate immunity is conserved between two animal species. *Am J Physiol Regul Integr Comp Physiol.* 2010;298:R1675-81. (IHC-PS, WB)
18. Jacobs Y, Xin X, Dorshkind K, Nelson C. Pan/E2A expression precedes immunoglobulin heavy-chain expression during B lymphopoiesis in nontransformed cells, and Pan/E2A proteins are not detected in myeloid cells. *Mol Cell Biol.* 1994;14:4087-96. (ICC)
19. Winter KR, Stoffregen WC, Dean-Nystrom EA. Shiga toxin binding to isolated porcine tissues and peripheral blood leukocytes. *Infect Immun.* 2004;72:6680-4. (ICC)
20. Poongodi GL, Suresh N, Gopinath SC, Chang T, Inoue S, Inoue Y. Dynamic change of neural cell adhesion molecule polysialylation on human neuroblastoma (IMR-32) and rat pheochromocytoma (PC-12) cells during growth and differentiation. *J Biol Chem.* 2002;277:28200-11. (WB)

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