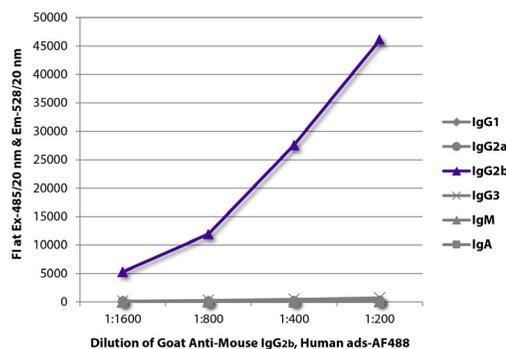




## Goat Anti-Mouse IgG<sub>2b</sub>, Human ads

Cat. No.	Format	Size
1090-01	Purified (UNLB)	1.0 mg
1090-02	Fluorescein (FITC)	1.0 mg
1090-03	Rhodamine (TRITC)	1.0 mg
1090-04	Alkaline Phosphatase (AP)	1.0 mL
1090-05	Horseradish Peroxidase (HRP)	1.0 mL
1090-07	Texas Red <sup>®</sup> (TXRD)	1.0 mg
1090-08	Biotin (BIOT)	1.0 mg
1090-09	R-phycoerythrin (PE)	0.5 mg
1090-09S	R-phycoerythrin (PE)	0.25 mg
1090-11L	Allophycocyanin (APC)	0.5 mg
1090-11S	Allophycocyanin (APC)	0.25 mg
1090-13	Spectral Red <sup>®</sup> (SPRD)	0.25 mg
1090-15	Cyanine 5 (CY5)	1.0 mg
1090-17	R-phycoerythrin-Cyanine 7 (PE/CY7)	0.25 mg
1090-19	Allophycocyanin-Cyanine 7 (APC/CY7)	0.25 mg
1090-30	Alexa Fluor <sup>®</sup> 488 (AF488)	1.0 mg
1090-31	Alexa Fluor <sup>®</sup> 647 (AF647)	1.0 mg
1090-32	Alexa Fluor <sup>®</sup> 555 (AF555)	1.0 mg



FLISA plate was coated with purified mouse IgG<sub>1</sub>, IgG<sub>2a</sub>, IgG<sub>2b</sub>, IgG<sub>3</sub>, IgM, and IgA. Immunoglobulins were detected with serially diluted Goat Anti-Mouse IgG<sub>2b</sub>, Human ads-AF488 (SB Cat. No. 1090-30).

### Description

<b>Specificity</b>	Reacts with the heavy chain of mouse IgG <sub>2b</sub>
<b>Source</b>	Pooled antisera from goats hyperimmunized with mouse IgG <sub>2b</sub>
<b>Cross Adsorption</b>	Mouse IgG <sub>1</sub> , IgG <sub>2a</sub> , IgG <sub>3</sub> , IgM, and IgA; human immunoglobulins and pooled sera; may react with immunoglobulins from other species
<b>Purification</b>	Affinity chromatography on mouse IgG <sub>2b</sub> covalently linked to agarose

### Applications

Quality tested applications include –

ELISA<sup>1-12</sup>  
 FLISA  
 FC<sup>13-15</sup>

Other referenced applications include –

ELISPOT<sup>4,6,16</sup>  
 IHC-FS<sup>17-19</sup>  
 IHC-PS<sup>17,20</sup>  
 ICC<sup>21,22</sup>  
 WB<sup>23,24</sup>

### Working Dilutions

<b>ELISA</b>	AP conjugate	1:2,000 – 1:4,000
	HRP conjugate	1:4,000 – 1:8,000
	BIOT conjugate	1:5,000 – 1:20,000
<b>FLISA</b>	FITC, TRITC, TXRD, AF488, and AF555 conjugates	1:100 – 1:400
	PE, APC, CY5, and AF647 conjugates	≤ 1 µg/mL
<b>Flow Cytometry</b>	FITC, BIOT, and AF488 conjugates	≤ 1 µg/10 <sup>6</sup> cells
	PE, APC, SPRD, CY5, PE/CY7, APC/CY7, and AF647 conjugates	≤ 0.1 µg/10 <sup>6</sup> cells
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 µL	
<b>Other Applications</b>	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), Cyanine 5 (CY5), 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/NaN<sub>3</sub>. 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 MgCl<sub>2</sub>/50% glycerol, pH 8.0, containing NaN<sub>3</sub> 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/NaN<sub>3</sub>. Store at 2-8°C.
- The R-phycoerythrin (PE) and allophycocyanin (APC) conjugates are supplied as 0.5 mg in 1.0 mL or 0.25 mg in 0.5 mL of PBS/NaN<sub>3</sub> and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Spectral Red® (SPRD), R-phycoerythrin-Cyanine 7 (PE/CY7), and allophycocyanin-Cyanine 7 (APC/CY7) conjugates are supplied as 0.25 mg in 1.0 mL of PBS/NaN<sub>3</sub> 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. Takahashi I, Marinaro M, Kiyono H, Jackson RJ, Nakagawa I, Fujihashi K, et al. Mechanisms for mucosal immunogenicity and adjuvancy of Escherichia coli labile enterotoxin. *J Infect Dis.* 1996;173:627-35. (ELISA)
2. 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)
3. Oetke C, Vinson MC, Jones C, Crocker PR. Sialoadhesin-deficient mice exhibit subtle changes in B- and T-cell populations and reduced immunoglobulin M levels. *Mol Cell Biol.* 2006;26:1549-57. (ELISA)
4. Hovden A, Brokstad KA, Major D, Wood J, Haaheim LR, Cox RJ. A pilot study of the immune response to whole inactivated avian influenza H7N1 virus vaccine in mice. *Influenza Other Respir Viruses.* 2009;3:21-8. (ELISA, ELISPOT)
5. Capasso M, Bhamrah MK, Henley T, Boyd RS, Langlais C, Cain K, et al. HVCN1 modulates BCR signal strength via regulation of BCR-dependent generation of reactive oxygen species. *Nat Immunol.* 2010;11:265-72. (ELISA)
6. Patterson HC, Kraus M, Wang D, Shahsafaei A, Henderson JM, Seagal J, et al. Cytoplasmic Iga serine/threonines fine-tune Ig alpha tyrosine phosphorylation and limit bone marrow plasma cell formation. *J Immunol.* 2011;187:2853-8. (ELISA, ELISPOT)
7. Futatsugi-Yumikura S, Matsushita K, Fukuoka A, Takahashi S, Yamamoto N, Yonehara S, et al. Pathogenic T<sub>H</sub>2-type follicular helper T cells contribute to the development of lupus in Fas-deficient mice. *Int Immunol.* 2014;26:221-31. (ELISA)
8. Aguilar JL, Varshney AK, Wang X, Stanford L, Scharff M, Fries BC. Detection and measurement of staphylococcal enterotoxin-like K (SEI-K) secretion by Staphylococcus aureus clinical isolates. *J Clin Microbiol.* 2014;52:2536-43. (ELISA)
9. Shen P, Roch T, Lampropoulou V, O'Connor RA, Stervbo U, Hilgenberg E, et al. IL-35-producing B cells are critical regulators of immunity during autoimmune and infectious diseases. *Nature.* 2014;507:366-70. (ELISA)
10. Quakkelaar ED, Fransen MF, van Maren WW, Vaneman J, Loof NM, van Heiningen SH, et al. IgG-mediated anaphylaxis to a synthetic long peptide vaccine containing a B cell epitope can be avoided by slow-release formulation. *J Immunol.* 2014;192:5813-20. (ELISA)
11. Patel JM, Vartabedian VF, Kim M, He S, Kang S, Selvaraj P. Influenza virus-like particles engineered by protein transfer with tumor-associated antigens induces protective antitumor immunity. *Biotechnol Bioeng.* 2015;112:1102-10. (ELISA)
12. Hartung E, Becker M, Bachem A, Reeg N, Jäkel A, Hutloff A, et al. Induction of potent CD8 T cell cytotoxicity by specific targeting of antigen to cross-presenting dendritic cells in vivo via murine or human XCR1. *J Immunol.* 2015;194:1069-79. (ELISA)
13. Gliddon DR, Howard CJ. CD26 is expressed on a restricted subpopulation of dendritic cells in vivo. *Eur J Immunol.* 2002;32:1472-81. (FC)
14. Bader SR, Kothlow S, Trapp S, Schwarz SC, Philipp H, Weigend S, et al. Acute parietic syndrome in juvenile White Leghorn chickens resembles late stages of acute inflammatory demyelinating polyneuropathies in humans. *J Neuroinflammation.* 2010;7:7. (FC)
15. Klausmann S, Sydler T, Summerfield A, Lewis FI, Weilenmann R, Sidler X, et al. T-cell reprogramming through targeted CD4-coreceptor and T-cell receptor expression on maturing thymocytes by latent Circoviridae family member porcine circovirus type 2 cell infections in the thymus. *Emerg Microbes Infect.* 2015;4:e15. (FC)
16. Hsu H, Wu Y, Yang P, Wu Q, Job G, Chen J, et al. Overexpression of activation-induced cytidine deaminase in B cells is associated with production of highly pathogenic autoantibodies. *J Immunol.* 2007;178:5357-65. (ELISPOT)
17. van der Loos C. User Protocol: Practical Guide to Multiple Staining. *BioTechniques' Protocol Guide 2010.* 2009 Nov. doi: doi10.2144/000113281. (IHC-FS, IHC-PS)
18. Popa ER, Harmsen MC, Tio RA, van der Strate BW, Brouwer LA, Schipper M, et al. Circulating CD34<sup>+</sup> progenitor cells modulate host angiogenesis and inflammation in vivo. *J Mol Cell Cardiol.* 2006;41:86-96. (IHC-FS)
19. Jacob N, Guo S, Mathian A, Koss MN, Gindea S, Putterman C, et al. B cell and BAFF dependence of IFN-alpha-exaggerated disease in systemic lupus erythematosus-prone NZM 2328 mice. *J Immunol.* 2011;186:4984-93. (IHC-FS)
20. Huizinga R, van der Star BJ, Kipp M, Jong R, Gerritsen W, Clarner T, et al. Phagocytosis of neuronal debris by microglia is associated with neuronal damage in multiple sclerosis. *Glia.* 2012;60:422-31. (IHC-PS)
21. Hanon E, Stinchcombe JC, Saito M, Asquith BE, Taylor GP, Tanaka Y, et al. Fratricide among CD8<sup>+</sup> T lymphocytes naturally infected with human T cell lymphotropic virus type I. *Immunity.* 2000;13:657-64. (ICC)
22. Häggqvist B, Hultman P. Effects of deviating the Th2-response in murine mercury-induced autoimmunity towards a Th1-response. *Clin Exp Immunol.* 2003;134:202-9. (ICC)
23. Elkabetz Y, Argon Y, Bar-Nun S. Cysteines in C<sub>H</sub>1 underlie retention of unassembled Ig heavy chains. *J Biol Chem.* 2005;280:14402-12. (WB)
24. Schott C, Graab U, Cuvelier N, Hahn H, Fulda S. Oncogenic RAS mutants confer resistance of RMS13 rhabdomyosarcoma cells to oxidative stress-induced ferroptotic cell death. *Front Oncol.* 2015;5:131. (WB)

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