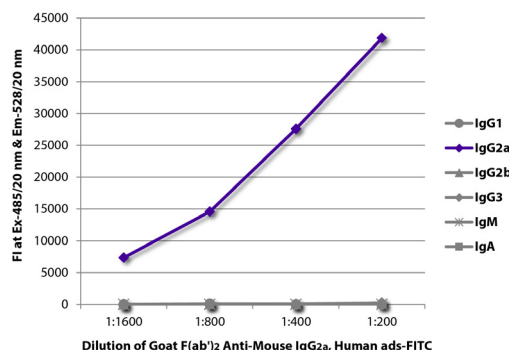


## Goat F(ab')<sub>2</sub> Anti-Mouse IgG<sub>2a</sub>, Human ads

| Cat. No. | Format                               | Size    |
|----------|--------------------------------------|---------|
| 1082-01  | Purified (UNLB)                      | 0.5 mg  |
| 1082-02  | Fluorescein (FITC)                   | 0.5 mg  |
| 1082-08  | Biotin (BIOT)                        | 0.5 mg  |
| 1082-09  | R-phycoerythrin (PE)                 | 0.25 mg |
| 1082-30  | Alexa Fluor <sup>®</sup> 488 (AF488) | 0.5 mg  |
| 1082-31  | Alexa Fluor <sup>®</sup> 647 (AF647) | 0.5 mg  |
| 1082-32  | Alexa Fluor <sup>®</sup> 555 (AF555) | 0.5 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 F(ab')<sub>2</sub> Anti-Mouse IgG<sub>2a</sub>, Human ads-FITC (SB Cat. No. 1082-02).

### Description

|                         |  |
|-------------------------|--|
| <b>Specificity</b>      | Reacts with the heavy chain of mouse IgG <sub>2a</sub>   |
| <b>Source</b>           | Pepsin digest of Goat Anti-Mouse IgG <sub>2a</sub> , Human ads (SB Cat. No. 1080)  |
| <b>Cross Adsorption</b> | Mouse IgG <sub>1</sub> , IgG <sub>2b</sub> , IgG <sub>3</sub> , IgM, and IgA; human immunoglobulins and pooled sera; may react with immunoglobulins from other species |

### Applications

Quality tested applications include –

ELISA<sup>1</sup>  
FLISA  
FC<sup>2-18</sup>

Other referenced applications include –

IHC-FS<sup>19,20</sup>  
IHC-PS<sup>21</sup>  
ICC<sup>22</sup>

### Working Dilutions

|                           |   |  |
|---------------------------|---|--|
| <b>ELISA</b>              | BIOT conjugate  | 1:5,000 – 1:10,000   |
| <b>FLISA</b>              | FITC, AF488, and AF555 conjugates<br>PE and AF647 conjugates  | 1:100 – 1:400<br>≤ 1 µg/mL                                     |
| <b>Flow Cytometry</b>     | FITC, BIOT, and AF488 conjugates<br>PE and AF647 conjugates<br>For flow cytometry, the suggested use of these reagents is in a final volume of 100 µL | ≤ 1 µg/10 <sup>6</sup> cells<br>≤ 0.2 µg/10 <sup>6</sup> cells |
| <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 0.5 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), Alexa Fluor® 488 (AF488), Alexa Fluor® 555 (AF555), and Alexa Fluor® 647 (AF647) conjugates are supplied as 0.5 mg in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is 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. Kobayashi N, Karisola P, Peña-Cruz V, Dorfman DM, Jinushi M, Umetsu SE, et al. TIM-1 and TIM-4 glycoproteins bind phosphatidylserine and mediate uptake of apoptotic cells. *Immunity*. 2007;27:927-40. (ELISA)
2. Lovchik JA, Wilder JA, Huffnagle GB, Riblet R, Lyons CR, Lipscomb MF. Ig heavy chain complex-linked genes influence the immune response in a murine cryptococcal infection. *J Immunol*. 1999;163:3907-13. (FC)
3. Stabel TJ, Bolin SR, Pesch BA, Rahner TE. A simple and rapid flow cytometric method for detection of porcine cell surface markers. *J Immunol Methods*. 2000;245:147-52. (FC)
4. Husson H, Carideo EG, Cardoso AA, Lugli SM, Neuberg D, Munoz O, et al. MCP-1 modulates chemotaxis by follicular lymphoma cells. *Br J Haematol*. 2001;115:554-62. (FC)
5. Gelderman KA, Blok VT, Fleuren GJ, Gorter A. The inhibitory effect of CD46, CD55, and CD59 on complement activation after immunotherapeutic treatment of cervical carcinoma cells with monoclonal antibodies or bispecific monoclonal antibodies. *Lab Invest*. 2002;82:483-93. (FC)
6. Mitre E, Thompson RW, Carvalho EM, Nutman TB, Neva FA. Majority of interferon- $\gamma$ -producing CD4<sup>+</sup> cells in patients infected with human T cell lymphotropic virus do not express tax protein. *J Infect Dis*. 2003;181:428-32. (FC)
7. Viglianti GA, Lau CM, Hanley TM, Miko BA, Shlomchik MJ, Marshak-Rothstein A. Activation of autoreactive B cells by CpG dsDNA. *Immunity*. 2003;19:837-47. (FC)
8. Boulé MW, Broughton C, Mackay F, Akira S, Marshak-Rothstein A, Rifkin IR. Toll-like receptor 9-dependent and -independent dendritic cell activation by chromatin-immunoglobulin G complexes. *J Exp Med*. 2004;199:1631-40. (FC)
9. Fulton BE Jr, Portella M, Radke K. Dissemination of bovine leukemia virus-infected cells from a newly infected sheep lymph node. *J Virol*. 2006;80:7873-84. (FC)
10. Meurens F, Whale J, Brownlie R, Dybvig T, Thompson DR, Gerds V. Expression of mucosal chemokines TECK/CCL25 and MEC/CCL28 during fetal development of the ovine mucosal immune system. *Immunology*. 2007;120:544-55. (FC)
11. Guikema JE, Schrader CE, Brodsky MH, Linehan EK, Richards A, El Falaky N, et al. p53 represses class switch recombination to IgG2a through its antioxidant function. *J Immunol*. 2010;184:6177-87. (FC)
12. Stabel JR, Robbe-Austerman S. Early immune markers associated with Mycobacterium avium subsp. paratuberculosis infection in a neonatal calf model. *Clin Vaccine Immunol*. 2011;18:393-405. (FC)
13. Verloes A, Van de Velde H, LeMaout J, Mateizel I, Cauffman G, Horn PA, et al. HLA-G expression in human embryonic stem cells and preimplantation embryos. *J Immunol*. 2011;186:2663-71. (FC)
14. Stabel JR, Waters WR, Bannantine JP, Palmer MV. Disparate host immunity to Mycobacterium avium subsp. paratuberculosis antigens in calves inoculated with M. avium subsp. paratuberculosis, M. avium subsp. avium, M. kansasii, and M. bovis. *Clin Vaccine Immunol*. 2013;20:848-57. (FC)
15. Schrader CE, Linehan EK, Ucher AJ, Bertocci B, Stavnezer J. DNA polymerases  $\beta$  and  $\lambda$  do not directly affect Ig variable region somatic hypermutation although their absence reduces the frequency of mutations. *DNA Repair*. 2013;12:1087-93. (FC)
16. Mackenzie-Dyck S, Kovacs-Nolan J, Snider M, Babiuk LA, van Drunen Littel-van den Hurk S. Inclusion of the bovine neutrophil Beta-defensin 3 with glycoprotein D of bovine herpesvirus 1 in a DNA vaccine modulates immune responses of mice and cattle. *Clin Vaccine Immunol*. 2014;21:463-77. (FC)
17. Haas E, Rütgen BC, Gerner W, Richter B, Tichy A, Galler A, et al. Phenotypic characterization of canine intestinal intraepithelial lymphocytes in dogs with inflammatory bowel disease. *J Vet Intern Med*. 2014;28:1708-15. (FC)
18. Pasternak JA, Ng SH, Käser T, Meurens F, Wilson HL. Grouping pig-specific responses to mitogen with similar responder animals may facilitate the interpretation of results obtained in an out-bred animal model. *J Vaccines Vaccin*. 2014;5:5. (FC)
19. Uyemura K, Demer LL, Castle SC, Jullien D, Berliner JA, Gately MK, et al. Cross-regulatory roles of interleukin (IL)-12 and IL-10 in atherosclerosis. *J Clin Invest*. 1996;97:2130-8. (IHC-FS)
20. Castan J, Tenner-Racz K, Racz P, Fleischer B, Bröker BM. Accumulation of CTLA-4 expressing T lymphocytes in the germinal centres of human lymphoid tissues. *Immunology*. 1997;90:265-71. (IHC-FS)
21. Kanaya T, Aso H, Miyazawa K, Kido T, Minashima T, Watanabe K, et al. Staining patterns for actin and villin distinguish M cells in bovine follicle-associated epithelium. *Res Vet Sci*. 2007;82:141-9. (IHC-PS)
22. Peng SL, Moslehi J, Craft J. Roles of interferon- $\gamma$  and interleukin-4 in murine lupus. *J Clin Invest*. 1997;99:1936-46. (ICC)

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