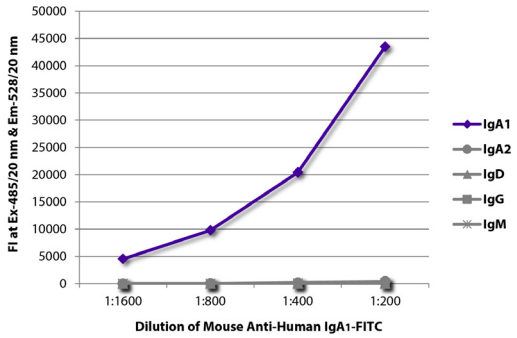
SouthernBiotech

Mouse Anti-Human IgA_1

Cat. No.	Format	Size
9130-01	Purified (UNLB)	0.5 mg
9130-02	Fluorescein (FITC)	0.5 mg
9130-04	Alkaline Phosphatase (AP)	1.0 mL
9130-05	Horseradish Peroxidase (HRP)	1.0 mL
9130-08	Biotin (BIOT)	0.5 mg
9130-09	R-phycoerythrin (PE)	0.1 mg
9130-30	Alexa Fluor® 488 (AF488)	0.1 mg
9130-31	Alexa Fluor® 647 (AF647)	0.1 mg



FLISA plate was coated with purified human IgA_1, IgA_2, IgD, IgG, and IgM. Immunoglobulins were detected with serially diluted Mouse Anti-Human IgA_1-FITC (SB Cat. No. 9130-02).

Overview

Clone	B3506B4
Isotype	Mouse $IgG_1\kappa$
Immunogen	Fc fragment of human IgA_1 myeloma protein
Specificity	Human IgA_1 Fc; Mr 170 kDa

Applications

ELISA – Quality tested [1-9]
FLISA – Quality tested
ELISPOT – Reported in literature [10]
FC – Reported in literature [6,16]
IHC-FS – Reported in literature [6,11]
ICC – Reported in literature [6,12]
WB – Reported in literature [13-15]
Multiplex – Reported in literature [17-20]
Sep – Reported in literature [6]
Depletion – Reported in literature [21]

Working Dilutions

ELISA	AP conjugate	1:1,000 – 1:4,000
	HRP conjugate	1:1,000 – 1:4,000
	BIOT conjugate	1:5,000 – 1:10,000
FLISA	FITC and AF488 conjugates	1:200 – 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.	

For Research Use Only. Not for Diagnostic or Therapeutic Use.

Corporate Offices: 160 Oxmoor Blvd • Birmingham, AL 35209 • USA **Mailing Address:** P.O. Box 26221 • Birmingham, AL 35260 • USA
Tel: 205.945.1774 • U.S. and Canada: 800.722.2255 • **Fax:** 205.945.8768
Email: info@southernbiotech.com • **Website:** www.southernbiotech.com

Handling and Storage

- The purified (UNLB) antibody is supplied as 0.5 mg of 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) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN_3. 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 $MgCl_2$/50% glycerol, pH 8.0, containing NaN_3 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 biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN_3. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN_3 and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Alexa Fluor® 488 (AF488) and Alexa Fluor® 647 (AF647) conjugates are supplied as 0.1 mg in 0.2 mL of PBS/NaN_3. 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 (M)SDS.

References

1. Johnson S, Sypura WD, Gerding DN, Ewing SL, Janoff EN. Selective neutralization of a bacterial enterotoxin by serum immunoglobulin A in response to mucosal disease. Infect Immun. 1995;63:3166-73. (ELISA)
2. Opstad NL, Daley CL, Thurn JR, Rubins JB, Merrifield C, Hopewell PC, et al. Impact of Streptococcus pneumoniae bacteremia and human immunodeficiency virus type 1 on oral mucosal immunity. J Infect Dis. 1995;172:566-70. (ELISA)
3. Camacho MT, Outschoorn I, Kovácová E, Telléz A. Distribution of immunoglobulin G (IgG) and A (IgA) subclasses following Q fever vaccination with soluble phase I Coxiella burnetii extract. Vaccine. 2000;18:1773-7. (ELISA)
4. Azim T, Zaki MH, Podder G, Sultana N, Salam MA, Rahman SM, et al. Rotavirus-specific subclass antibody and cytokine responses in Bangladeshi children with rotavirus diarrhoea. J Med Virol. 2003;69:286-95. (ELISA)
5. Arnold M, Zacher T, Dechant M, Kalden JR, Doxiadis II, Spriewald BM. Detection and specification of noncomplement binding anti-HLA alloantibodies. Hum Immunol. 2004;65:1288-96. (ELISA)
6. He B, Xu W, Santini PA, Polydorides AD, Chiu A, Estrella J, et al. Intestinal bacteria trigger T cell-independent immunoglobulin A_2 class switching by inducing epithelial-cell secretion of the cytokine APRIL. Immunity. 2007;26:812-26. (ELISA, Sep, FC, IHC-FS, ICC)
7. Fasching CE, Grossman T, Corthésy B, Plaut AG, Weiser JN, Janoff EN. Impact of the molecular form of immunoglobulin A on functional activity in defense against Streptococcus pneumoniae. Infect Immun. 2007;75:1801-10. (ELISA)
8. Geisler WM, Morrison SG, Doemland ML, Iqbal SM, Su J, Mancevski A, et al. Immunoglobulin-specific responses to Chlamydia elementary bodies in individuals with and at risk for genital chlamydial infection. J Infect Dis. 2012;206:1836-43. (ELISA)
9. Shao J, Peng Y, He L, Liu H, Chen X, Peng X. Capsaicin induces high expression of BAFF and aberrantly glycosylated IgA1 of tonsillar mononuclear cells in IgA nephropathy patients. Hum Immunol. 2014;75:1034-9. (ELISA)
10. Carson PJ, Schut RL, Simpson ML, O'Brien J, Janoff EN. Antibody class and subclass responses to pneumococcal polysaccharides following immunization of human immunodeficiency virus-infected patients. J Infect Dis. 1995;172:340-5. (ELISPOT)
11. Senpuku H, Asano T, Matin K, Salam MA, Tsuha Y, Horibata S, et al. Effects of human interleukin-18 and interleukin-12 treatment on human lymphocyte engraftment in NOD-scid mouse. Immunology. 2002;107:232-42. (IHC-FS)
12. Suzuki H, Moldoveanu Z, Hall S, Brown R, Vu HL, Novak L, et al. IgA1-secreting cell lines from patients with IgA nephropathy produce aberrantly glycosylated IgA1. J Clin Invest. 2008;118:629-39. (ICC)
13. Batten MR, Senior BW, Kilian M, Woof JM. Amino acid sequence requirements in the hinge of human immunoglobulin A1 (IgA1) for cleavage by streptococcal IgA1 proteases. Infect Immun. 2003;71:1462-9. (WB)
14. Lewis MJ, Pleass RJ, Batten MR, Atkin JD, Woof JM. Structural requirements for the interaction of human IgA with the human polymeric Ig receptor. J Immunol. 2005;175:6694-701. (WB)
15. Lehoux S, Mi R, Aryal RP, Wang Y, Schjoldager KT, Clausen H, et al. Identification of distinct glycoforms of IgA1 in plasma from patients with immunoglobulin A (IgA) nephropathy and healthy individuals. Mol Cell Proteomics. 2014;13:3097-113. (WB)
16. Avery DT, Bryant VL, Ma CS, de Waal Malefyt R, Tangye SG. IL-21-induced isotype switching to IgG and IgA by human naive B cells is differentially regulated by IL-4. J Immunol. 2008;181:1767-79. (FC)
17. Arnold M, Dechant M, Doxiadis II, Spriewald BM. Prevalence and specificity of immunoglobulin G and immunoglobulin A non-complement-binding anti-HLA alloantibodies in retransplant candidates. Tissue Antigens. 2008;72:60-6. (Multiplex)
18. Keynan Y, Bodnarchuk T, Wayne S, Li Y, Fowke KR. Evaluation of influenza-specific humoral response by microbead array analysis. Can J Infect Dis Med Microbiol. 2011;22:25-9. (Multiplex)
19. Arnold M, Heinemann FM, Horn P, Ziemann M, Lachmann N, Mühlbacher A, et al. 16th IHIW: anti-HLA alloantibodies of the of IgA isotype in re-transplant candidates. Int J Immunogenet. 2013;40:17-20. (Multiplex)
20. Arnold M, Ntokou I, Doxiadis II, Spriewald BM, Boletis JN, Iniotaki AG. Donor-specific HLA antibodies: evaluating the risk for graft loss in renal transplant recipients with isotype switch from complement fixing IgG1/IgG3 to noncomplement fixing IgG2/IgG4 anti-HLA alloantibodies. Transpl Int. 2014;27:253-61. (Multiplex)
21. Kitani A, Strober W. Differential regulation of Cα1 and Cα2 germ-line and mature mRNA transcripts in human peripheral blood B cells. J Immunol. 1994;153:1466-77. (Depletion)

Corporate Offices: 160 Oxmoor Blvd • Birmingham, AL 35209 • USA **Mailing Address:** P.O. Box 26221 • Birmingham, AL 35260 • USA
Tel: 205.945.1774 • U.S. and Canada: 800.722.2255 • **Fax:** 205.945.8768
Email: info@southernbiotech.com • **Website:** www.southernbiotech.com