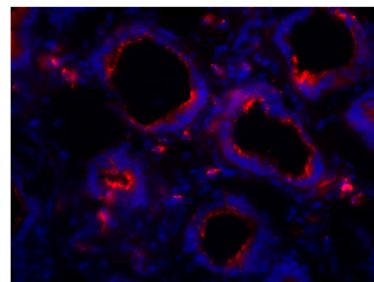




Mouse Anti-Chicken IgA

Cat. No.	Format	Size
8330-01	Purified (UNLB)	0.5 mg
8330-02	Fluorescein (FITC)	0.5 mg
8330-08	Biotin (BIOT)	0.5 mg
8330-09	R-phycoerythrin (PE)	0.1 mg



Frozen chicken intestine tissue section was stained with Mouse Anti-Chicken IgA-BIOT (SB Cat. No. 8330-08) followed by Streptavidin-CY3 (SB Cat. No. 7100-12) and DAPI.

Overview

Clone	A-1
Isotype	Mouse (BALB/c) IgG _{2b} K
Immunogen	Affinity purified chicken Ig or isolated lymphocytes
Specificity	Chicken IgA; Mr 170-200 kDa (Serum), Mr 300-500 kDa (Intestine), Mr 350-900 kDa (Bile)
Alternate Name(s)	N/A

Applications

ICC – Quality tested
 IHC-FS – Quality tested^{3,4}
 FC – Reported in literature^{25,26}
 IHC-PS – Reported in literature^{5-16,25}
 IP – Reported in literature^{1,2}
 ELISA – Reported in literature¹⁸⁻²⁵

Working Dilutions

Flow Cytometry	FITC and BIOT conjugates	≤ 1 µg/10 ⁶ cells
	PE conjugate	≤ 0.2 µg/10 ⁶ cells
For flow cytometry, the suggested use of these reagents is in a final volume of 100 µL		
Immunohistochemistry	FITC and BIOT conjugates	≤ 10 µg/mL
ICC	FITC and BIOT conjugates	≤ 10 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.

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/NaN₃. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 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. Chen CH, Lehmeyer JE, Cooper MD. Evidence for an IgD homologue on chicken lymphocytes. *J Immunol.* 1982;129:2580-5. (Immunogen, IP)
2. van Ginkel FW, Tang DC, Gulley SL, Toro H. Induction of mucosal immunity in the avian Harderian gland with a replication-deficient Ad5 vector expressing avian influenza H5 hemagglutinin. *Dev Comp Immunol.* 2009;33:28-34. (IP)
3. Fahey KJ, York JJ. The role of mucosal antibody in immunity to infectious laryngotracheitis virus in chickens. *J Gen Virol.* 1990;71:2401-5. (IHC-FS)
4. Javed MA, Frasca S Jr, Rood D, Cecchini K, Gladd M, Geary SJ, et al. Correlates of immune protection in chickens vaccinated with *Mycoplasma gallisepticum* strain GT5 following challenge with pathogenic *M. gallisepticum* strain R_{low}. *Infect Immun.* 2005;73:5410-9. (IHC-FS)
5. Yurong Y, Yibao J, Ruiping S, Qingqiang Y, Kaisong P, Huihui B, et al. Effects of chicken intestinal antimicrobial peptides on humoral immunity of chickens and antibody titres after vaccination with infectious bursal disease virus vaccine in chicken. *Arch Anim Nutr.* 2006;60:427-35. (IHC-PS)
6. Gao J, Zhang HJ, Yu SH, Wu SG, Yoon I, Quigley J, et al. Effects of yeast culture in broiler diets on performance and immunomodulatory functions. *Poult Sci.* 2008;87:1377-84. (IHC-PS)
7. Liu T, She R, Wang K, Bao H, Zhang Y, Luo D, et al. Effects of rabbit sacculus rotundus antimicrobial peptides on the intestinal mucosal immunity in chickens. *Poult Sci.* 2008;87:250-4. (IHC-PS)
8. Wang D, Ma W, She R, Sun Q, Liu Y, Hu Y, et al. Effects of swine gut antimicrobial peptides on the intestinal mucosal immunity in specific-pathogen-free chickens. *Poult Sci.* 2009;88:967-74. (IHC-PS)
9. Wang D, Zhou X, She R, Xiong J, Sun Q, Peng K, et al. Impaired intestinal mucosal immunity in specific-pathogen-free chickens after infection with very virulent infectious bursal disease virus. *Poult Sci.* 2009;88:1623-8. (IHC-PS)
10. Jiang YB, Yin QQ, Yang YR. Effect of soybean peptides on growth performance, intestinal structure and mucosal immunity of broilers. *J Anim Physiol Anim Nutr (Berl).* 2009;93:754-60. (IHC-PS)
11. Liu P, Shi W, Zhao Y, Zhong X. Effects of Chinese herbal formula Moxing Shigan powder on IgA secreting cells in chicken bronchus. *J Med Plants Res.* 2011;5:4304-9. (IHC-PS)
12. Yan Z, Du Y, Zhao Q, Fan R, Guo W, Ma R, et al. Mucosal immune responses against live Newcastle disease vaccine in immunosuppressed chickens. *Pak Vet J.* 2011;31:280-6. (IHC-PS)
13. Cheng J, Li Q, Shi W, Zhong X. Effects of Huangqi Moxingshigan decoction on infectious laryngotracheitis in chickens. *Ital J Anim Sci.* 2011;10:124-30. (IHC-PS)
14. Deng W, Dong XF, Tong JM, Zhang Q. The probiotic *Bacillus licheniformis* ameliorates heat stress-induced impairment of egg production, gut morphology, and intestinal mucosal immunity in laying hens. *Poult Sci.* 2012;91:575-82. (IHC-PS)
15. Zhang D, Shi W, Zhao Y, Zhong X. Adjuvant effects of Sijunzi decoction in chickens orally vaccinated with attenuated Newcastle-disease vaccine. *Afr J Tradit Complement Altern Med.* 2012;9:120-30. (IHC-PS)
16. Liu J, Cui H, Peng X, Fang J, Zuo Z, Deng J, et al. Decreased IgA⁺ B cells population and IgA, IgG, IgM contents of the cecal tonsil induced by dietary high fluorine in broilers. *Int J Environ Res Public Health.* 2013;10:1775-85. (IHC-PS)
17. Muir WI, Husband AJ, Bryden WL. Dietary supplementation with vitamin E modulates avian intestinal immunity. *Br J Nutr.* 2002;87:579-85. (ELISA)
18. Bailey JS, Rolón A, Hofacre CL, Holt PS, Wilson JL, Cosby DE, et al. Intestinal humoral immune response and resistance to *Salmonella* challenge of progeny from breeders vaccinated with killed antigen. *Int J Poult Sci.* 2007;6:417-23. (ELISA)
19. Fasina YO, Holt PS, Moran ET, Moore RW, Conner DE, McKee SR. Intestinal cytokine response of commercial source broiler chicks to *Salmonella typhimurium* infection. *Poult Sci.* 2008;87:1335-46. (ELISA)
20. Vaughn LE, Holt PS, Moore RW, Gast RK, Anderson KE. Crop immune response post-*Salmonella enteritidis* challenge in eight commercial egg-layer strains and specific-pathogen-free White Leghorn chickens. *Avian Dis.* 2008;52:79-87. (ELISA)
21. Fassbinder-Orth CA, Hofmeister EK, Weeks-Levy C, Karasov WH. Oral and parenteral immunization of chickens (*Gallus gallus*) against West Nile virus with recombinant envelope protein. *Avian Dis.* 2009;53:502-9. (ELISA)
22. Ishola OO, Ogunidipe GA. *Salmonella Enterica* serovar *Enteritidis* experimental infection in chickens: effects of the infectious dose on crop immunoglobulin A antibody response. *Isr J Vet Med.* 2009;64:6-11. (ELISA)
23. Lardinois A, van den Berg T, Lambrecht B, Steensels M. A model for the transfer of passive immunity against Newcastle disease and avian influenza in specific pathogen free chickens. *Avian Pathol.* 2014;43:118-24. (ELISA)
24. Orr-Burks N, Gulley SL, Gallardo RA, Toro H, van Ginkel FW. Immunoglobulin A as an early humoral responder after mucosal avian coronavirus vaccination. *Avian Dis.* 2014;58:279-86. (ELISA)
25. Janardhana V, Broadway MM, Bruce MP, Lowenthal JW, Geier MS, Hughes RJ, et al. Prebiotics modulate immune responses in the gut-associated lymphoid tissue of chickens. *J Nutr.* 2009;139:1404-9. (ELISA, IHC-PS, FC)
26. Petkov DI, Linnemann EG, Kapczynski DR, Sellers HS. Identification and characterization of two distinct bursal B-cell subpopulations following infectious bursal disease virus infection of White Leghorn chickens. *Avian Dis.* 2009;53:347-55. (FC)