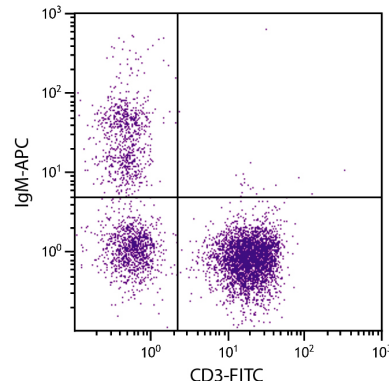




Mouse Anti-Chicken IgM

Cat. No.	Format	Size
8310-01	Purified (UNLB)	0.5 mg
8310-02	Fluorescein (FITC)	0.5 mg
8310-08	Biotin (BIOT)	0.5 mg
8310-09	R-phycoerythrin (PE)	0.1 mg
8310-11	Allophycocyanin (APC)	0.1 mg
8310-13	Spectral Red® (SPRD)	0.1 mg
8310-31	Alexa Fluor® 647 (AF647)	0.1 mg



Chicken peripheral blood lymphocytes were stained with Mouse Anti-Chicken IgM-APC (SB Cat. No. 8310-11) and Mouse Anti-Chicken CD3-FITC (SB Cat. No. 8200-02).

Overview

Clone	M-1
Isotype	Mouse (BALB/c) IgG _{2b} K
Immunogen	Affinity purified chicken Ig or isolated lymphocytes
Specificity	Chicken/Turkey IgM; Mr 820–950 kDa
Alternate Name(s)	N/A

Applications

FC – Quality tested ^{2,3,7-20}
 ELISA – Quality tested
 FLISA – Quality tested
 IHC-FS – Reported in literature ²⁻⁴
 ICC – Reported in literature ¹
 IP – Reported in literature ^{1,2,5}
 Stim – Reported in literature ⁶

Working Dilutions

Flow Cytometry	FITC and BIOT conjugates	≤ 1 µg/10 ⁶ cells
	APC, PE, SPRD, and AF647 conjugates	≤ 0.2 µg/10 ⁶ cells
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 µL	
FLISA	FITC conjugate	1:100 – 1:400
	PE, APC, and AF647 conjugates	≤ 1 µg/mL
ELISA	BIOT conjugate	1:5,000 – 1:10,000
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) and allophycocyanin (APC) conjugates are supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Spectral Red® (SPRD) 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!**
- The Alexa Fluor® 647 (AF647) conjugate is supplied as 0.1 mg in 0.2 mL PBS/NaN₃. 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 SDS.

References

1. Chen CH, Lehmeier JE, Cooper MD. Evidence for an IgD homologue on chicken lymphocytes. *J Immunol.* 1982;129:2580-5. (Immunogen, IP, ICC)
2. Ekino S, Riwar B, Kroese FG, Schwander EH, Koch G, Nieuwenhuis P. Role of environmental antigen in the development of IgG⁺ cells in the bursa of fabricius. *J Immunol.* 1995;155:4551-8. (FC, IP, IHC-FS)
3. Schusser B, Collarini EJ, Yi H, Izquierdo SM, Fesler J, Pedersen D, et al. Immunoglobulin knockout chickens via efficient homologous recombination in primordial germ cells. *Proc Natl Acad Sci USA.* 2013;110:20170-5. (IHC-FS, FC)
4. 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. (IHC-FS, FC)
5. Alinikula J, Nera K, Junttila S, Lassila O. Alternate pathways for Bcl6-mediated regulation of B cell to plasma cell differentiation. *Eur J Immunol.* 2011;41:2404-13. (IP)
6. Viertboeck BC, Schweinsberg S, Hanczaruk MA, Schmitt R, Du Pasquier L, Herberg FW, et al. The chicken leukocyte receptor complex encodes a primordial, activating, high-affinity IgY Fc receptor. *Proc Natl Acad Sci USA.* 2007;104:11718-23. (Stim)
7. Wang YW, Cherian G, Sunwoo HH, Sim JS. Dietary polyunsaturated fatty acids significantly affect laying hen lymphocyte proliferation and immunoglobulin G concentration in serum and egg yolk. *Can J Anim Sci.* 2000;80:597-604. (FC)
8. Selvaraj RK, Cherian G. Dietary n-3 fatty acids reduce the delayed hypersensitivity reaction and antibody production more than n-6 fatty acids in broiler birds. *Eur J Lipid Sci Technol.* 2004;106:3-10. (FC)
9. Selvaraj RK, Cherian G. Changes in delayed type hypersensitivity, egg antibody content and immune cell fatty acid composition of layer birds fed conjugated linoleic acid, n-6 or n-3 fatty acids. *Can J Anim Sci.* 2004;84:221-8. (FC)
10. Chowdhury SR, Smith TK, Boermans HJ, Woodward B. Effects of feed-borne Fusarium mycotoxins on hematology and immunology of laying hens. *Poult Sci.* 2005;84:1841-50. (FC)
11. Nera K, Alinikula J, Terho P, Narvi E, Törnquist K, Kurosaki T, et al. Ikaros has a crucial role in regulation of B cell receptor signaling. *Eur J Immunol.* 2006;36:516-25. (FC)
12. Yang SY, Fugmann SD, Schatz DG. Control of gene conversion and somatic hypermutation by immunoglobulin promoter and enhancer sequences. *J Exp Med.* 2006;203:2919-28. (FC)
13. Cook AJ, Raftery JM, Lau KK, Jessup A, Harris RS, Takeda S, et al. DNA-dependent protein kinase inhibits AID-induced antibody gene conversion. *PLoS Biol.* 2007;5(4):e80. (FC)
14. Yang SY, Fugmann SD, Gramlich HS, Schatz DG. Activation-induced cytidine deaminase-mediated sequence diversification is transiently targeted to newly integrated DNA substrates. *J Biol Chem.* 2007;282:25308-13. (FC)
15. 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. (FC)
16. 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)
17. Luo J, Zhang H, Teng M, Fan J, You L, Xiao Z, et al. Surface IgM on DT40 cells may be a component of the putative receptor complex responsible for the binding of infectious bursal disease virus. *Avian Pathol.* 2010;39:359-65. (FC)
18. Jankowski J, Zduńczyk Z, Sartowska K, Tykałowski B, Stenzel T, Wróblewska M, et al. Metabolic and immune response of young turkeys originating from parent flocks fed diets with inorganic or organic selenium. *Pol J Vet Sci.* 2011;14:353-8. (FC, Turkey Reactivity)
19. Levkut M, Revajová V, Lauková A, Ševčíková Z, Spišáková V, Faixová Z, et al. Leukocytic responses and intestinal mucin dynamics of broilers protected with *Enterococcus faecium* EF55 and challenged with *Salmonella* Enteritidis. *Res Vet Sci.* 2012;93:195-201. (FC)
20. Revajová V, Slaminková Z, Grešáková L, Levkut M. Duodenal morphology and immune responses of broiler chickens fed low doses of deoxynivalenol. *Acta Vet. Brno.* 2013;82:337-42. (FC)

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