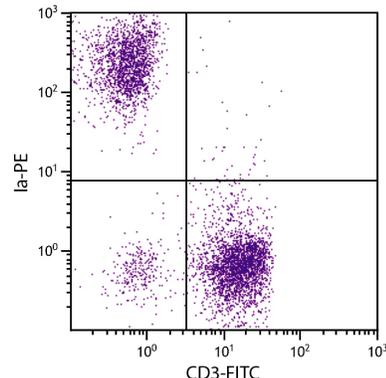




Mouse Anti-Chicken Ia

Cat. No.	Format	Size
8290-01	Purified (UNLB)	0.5 mg
8290-02	Fluorescein (FITC)	0.5 mg
8290-08	Biotin (BIOT)	0.5 mg
8290-09	R-phycoerythrin (PE)	0.1 mg



Chicken peripheral blood lymphocytes were stained with Mouse Anti-Chicken Ia-PE (SB Cat. No. 8290-09) and Mouse Anti-Chicken CD3-FITC (SB Cat. No. 8200-02).

Overview

Clone	Cla
Isotype	Mouse (BALB/c) IgM κ
Immunogen	Splenic leukocytes from an outbred nine-week-old chicken
Specificity	Chicken/Quail/Dove/Pigeon/Duck Ia; Mr 32 & 27 KDa
Alternate Name(s)	MHC Class II

Description

The chicken Ia antigen is expressed on B cells, a subpopulation of the monocyte/macrophage lineage of cells, and mitogen-activated T cells. The molecule recognized by this antibody is similar in structure to the murine Ia antigens and human DR antigens.

Applications

FC – Quality tested ^{1,7,9,10}
 IHC-FS – Reported in literature ²⁻⁶
 ICC – Reported in literature ^{1,7,8}
 IP – Reported in literature ¹
 Block – Reported in literature ¹

Working Dilutions

Flow Cytometry	FITC and BIOT conjugates	$\leq 1 \mu\text{g}/10^6$ cells
	PE conjugate	$\leq 0.2 \mu\text{g}/10^6$ cells
For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL		

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. Ewert DL, Munchus MS, Chen CH, Cooper MD. Analysis of structural properties and cellular distribution of avian Ia antigen by using monoclonal antibody to monomorphic determinants. *J Immunol.* 1984;132:2524-30. (Immunogen, FC, ICC, IP, Block, Quail, Dove, Pigeon, & Duck Reactivity)
2. Wang X, Efr GF. Apoptosis in feathers of Smyth line chickens with autoimmune vitiligo. *J Autoimmun.* 2004;22:21-30. (IHC-FS)
3. O'Halloran EK, Oesterle EC. Characterization of leukocyte subtypes in chicken inner ear sensory epithelia. *J Comp Neurol.* 2004;475:340-60. (IHC-FS)
4. Das SC, Nagasaka N, Yoshimura Y. Changes in the localization of antigen presenting cells and T cells in the utero-vaginal junction after repeated artificial insemination in laying hens. *J Reprod Dev.* 2005;51:683-7. (IHC-FS)
5. Subedi K, Yoshimura Y. Expression of MHC class I and II in growing ovarian follicles of young and old laying hens, *Gallus domesticus*. *J Poult Sci.* 2005;42:101-9. (IHC-FS)
6. Yoshimura Y, Fukui T, Nishibori M, Isobe N. Effects of age and gonadal steroids on the localization of antigen presenting cells in the epididymis of the male chicken, *Gallus domesticus*. *J Reprod Dev.* 2006;52:363-71. (IHC-FS)
7. Bakri Y, Sarrazin S, Mayer UP, Tillmanns S, Nerlov C, Boned A, et al. Balance of MafB and PU.1 specifies alternative macrophage or dendritic cell fate. *Blood.* 2005;105:2707-16. (FC, ICC)
8. Niikura M, Kim T, Hunt HD, Burnside J, Morgan RW, Dodgson JB, et al. Marek's disease virus up-regulates major histocompatibility complex class II cell surface expression in infected cells. *Virology.* 2007;359:212-9. (ICC)
9. Rautenschlein S, Subramanian A, Sharma JM. Bioactivities of a tumour necrosis-like factor released by chicken macrophages. *Dev Comp Immunol.* 1999;23:629-40. (FC)
10. Chrzęstek K, Piasecki T, Wieliczko A. Impact of CpG oligodeoxynucleotide stimulation on percentage of T and B cells in chicken. *Pol J Vet Sci.* 2013;16:551-4. (FC)