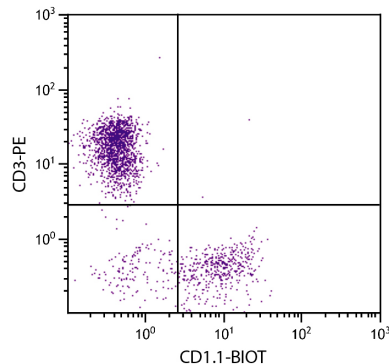




## Mouse Anti-Chicken CD1.1

Cat. No.	Format	Size
8430-01	Purified (UNLB)	0.5 mg
8430-02	Fluorescein (FITC)	0.5 mg
8430-08	Biotin (BIOT)	0.5 mg



Chicken peripheral blood lymphocytes were stained with Mouse Anti-Chicken CD1.1-BIOT (SB Cat. No. 8430-08) and Mouse Anti-Chicken CD3-PE (SB Cat. No. 8200-09) followed by Streptavidin-FITC (SB Cat. No. 7100-02).

### Overview

<b>Clone</b>	CB3
<b>Isotype</b>	Mouse (BALB/c) IgG <sub>1κ</sub>
<b>Immunogen</b>	Lymphocytes from the bursa of Fabricius of outbred chickens
<b>Specificity</b>	Chicken CD1.1
<b>Alternate Name(s)</b>	N/A

### Description

CD1 molecules, like MHC I and II, play an important role in the immune system by presenting lipid, glycolipid and lipopeptide antigen to T and NKT cells. The chicken CD1 gene is located in the chicken MHC B locus and has an important implication for the primordial MHC gene evolution. Two proteins have been identified - CD1.1 and CD1.2. Analysis of RNA from blood cells showed that both genes are expressed in Bu-1<sup>+</sup> cells and CD8α<sup>+</sup> cells. CD1.2 is expressed in TCRγδ cells but is nearly undetectable in TCRαβ. The monoclonal antibody CB3 antibody can identify cells of the B cell lineage and recognizes CD1.1 but not CD1.2 on the surface of transfected mammalian cells.

### Applications

FC – Quality tested<sup>1-3</sup>  
 IHC-FS – Reported in literature<sup>1</sup>  
 ICC – Reported in literature<sup>1</sup>  
 IP – Reported in literature<sup>1</sup>

### Working Dilutions

<b>Flow Cytometry</b>	Purified (UNLB) antibody	≤ 1 μg/10 <sup>6</sup> cells
	FITC and BIOT conjugates	≤ 1 μg/10 <sup>6</sup> 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.**

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## Handling and Storage

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- 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<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.
- Reagents are stable for the period shown on the label if stored as directed.

## Warning

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Some reagents contain sodium azide. Please refer to product specific SDS.

## References

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1. Pickel JM, Chen CH, Cooper MD. An avian B-lymphocyte protein associated with  $\beta_2$ -microglobulin. Immunogenetics. 1990;32:1-7. (Immunogen, FC, IHC-FS, ICC, IP)
2. Salomonsen J, Sørensen MR, Marston DA, Rogers SL, Collen T, van Hateren A, et al. Two CD1 genes map to the chicken MHC, indicating that CD1 genes are ancient and likely to have been present in the primordial MHC. Proc Natl Acad Sci USA. 2005;102:8668-73. (FC)
3. Wu Z, Rothwell L, Young JR, Kaufman J, Butter C, Kaiser P. Generation and characterization of chicken bone marrow-derived dendritic cells. Immunology. 2009;129:133-45. (FC)