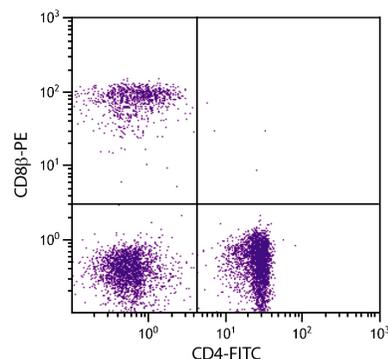




## Mouse Anti-Chicken CD8 $\beta$

Cat. No.	Format	Size
8280-01	Purified (UNLB)	0.5 mg
8280-02	Fluorescein (FITC)	0.5 mg
8280-08	Biotin (BIOT)	0.5 mg
8280-09	R-phycoerythrin (PE)	0.1 mg



Chicken peripheral blood lymphocytes were stained with Mouse Anti-Chicken CD8 $\beta$ -PE (SB Cat. No. 8280-09) and Mouse Anti-Chicken CD4-FITC (SB Cat. No. 8210-02).

### Overview

<b>Clone</b>	EP42
<b>Isotype</b>	Mouse (BALB/c) IgG <sub>2a</sub> K
<b>Immunogen</b>	Chicken splenocytes
<b>Specificity</b>	Chicken CD8 $\beta$ ; Mr 34 kDa
<b>Alternate Name(s)</b>	N/A

### Description

In the chicken, the CD8 molecule is present in two forms - (i) a homodimer of two  $\alpha$  chains and (ii) a heterodimer of an  $\alpha$  chain and a  $\beta$  chain. While the vast majority of CD8<sup>+</sup> cells in the thymus, spleen, and blood of adult chickens express both CD8 $\alpha$ - and CD8 $\beta$ -chains, a relatively large proportion of the CD8<sup>+</sup> TCR- $\gamma\delta$  cells in the spleens of embryos and young chicks express only the  $\alpha$ -chain of CD8. Among intestinal epithelial lymphocytes, the major CD8<sup>+</sup> T cell populations present in mice are conserved but there is a population of TCR- $\gamma\delta$  CD8 $\alpha\beta$  cells in the chicken that is not found in rodents. Chicken CD8 is expressed on approximately 80% of thymocytes, 45% of blood mononuclear cells, and 50% of spleen cells but less than 1% of cells in the bursa and bone marrow. The monoclonal antibody EP42 recognizes the CD8 $\beta$  chain.

### Applications

FC – Quality tested <sup>1,2,4-9</sup>  
 IHC-FS – Reported in literature <sup>2,3</sup>  
 IP – Reported in literature <sup>1</sup>

### Working Dilutions

<b>Flow Cytometry</b>	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  $\mu\text{L}$ .

**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

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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.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN<sub>3</sub> 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

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

## References

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8. Petrov P, Motobu M, Salmi J, Uchida T, Vainio O. Novel leukocyte protein, Trojan, differentially expressed during thymocyte development. *Mol Immunol.* 2010;47:1522-8. (FC)
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