## Mouse Anti-Chicken CD8β

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Format</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>8280-01</td>
<td>Purified (UNLB)</td>
<td>0.5 mg</td>
</tr>
<tr>
<td>8280-02</td>
<td>Fluorescein (FITC)</td>
<td>0.5 mg</td>
</tr>
<tr>
<td>8280-08</td>
<td>Biotin (BIOT)</td>
<td>0.5 mg</td>
</tr>
<tr>
<td>8280-09</td>
<td>R-phycoerythrin (PE)</td>
<td>0.1 mg</td>
</tr>
</tbody>
</table>

### Overview

**Clone**
EP42

**Isotype**
Mouse (BALB/c) IgG2aκ

**Immunogen**
Chicken splenocytes

**Specificity**
Chicken CD8β; Mr 34 kDa

**Alternate Name(s)**
N/A

### Description

In the chicken, the CD8 molecule is present in two forms - (i) a homodimer of two α chains and (ii) a heterodimer of an α chain and a β chain. While the vast majority of CD8⁺ cells in the thymus, spleen, and blood of adult chickens express both CD8α- and CD8β-chains, a relatively large proportion of the CD8⁺ TCR-γδ cells in the spleens of embryos and young chicks express only the α-chain of CD8. Among intestinal epithelial lymphocytes, the major CD8⁺ T cell populations present in mice are conserved but there is a population of TCR-γδ CD8αβ 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 CD8β chain.

### Applications

**FC** – Quality tested ¹,²,⁴-⁹

**IHC-FS** – Reported in literature ²,³

**IP** – Reported in literature ¹

### Working Dilutions

**Flow Cytometry**

- FITC and BIOT conjugates ≤ 1 μg/10⁶ cells
- PE conjugate ≤ 0.2 μg/10⁶ 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.
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/NaNO₂. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaNO₂. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaNO₂ 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 (M)SDS.

References

3. Pielsticker C. Investigations on the humoral and cell-mediated immune response in chicken after inoculation with Campylobacter jejuni strains of human and avian origin [thesis]. Hannover (Germany): University of Veterinary Medicine Hannover; 2013. (IHC-FS)