Mouse Anti-Chicken MHC Class II

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Format</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>8350-01</td>
<td>Purified (UNLB)</td>
<td>0.5 mg</td>
</tr>
<tr>
<td>8350-02</td>
<td>Fluorescein (FITC)</td>
<td>0.5 mg</td>
</tr>
<tr>
<td>8350-08</td>
<td>Biotin (BIOT)</td>
<td>0.5 mg</td>
</tr>
<tr>
<td>8350-09</td>
<td>R-phycoerythrin (PE)</td>
<td>0.1 mg</td>
</tr>
<tr>
<td>8350-30</td>
<td>Alexa Fluor® 488 (AF488)</td>
<td>0.1 mg</td>
</tr>
</tbody>
</table>

Overview

Clone: 2G11  
Isotype: Mouse IgG1κ  
Immunogen: Unknown  
Specificity: Chicken/Pigeon/Caiman MHC Class II β-chain; Mr 30-42 kDa  
Alternate Name(s): B-L

Description

The chicken major histocompatibility complex (MHC), or B complex, consists of several clusters of highly polymorphic genes. Like their mammalian counterparts, the avian MHC exerts genetic influence over a variety of important biological functions such as immune response, disease resistance, growth and development, aging, and reproduction. Chicken MHC Class II genes, also known as the B-L subregion, of the chicken MHC encode cell surface glycoproteins that are homologous to mammalian Class II antigens. B-L antigens are structurally similar to mammalian Class II molecules in that they are noncovalently bound dimers of one heavy chain and one light chain. MHC Class II is primarily expressed on B cells and antigen presenting cells (APCs).

Applications

- FC – Quality tested 1,4,6-19  
- IHC-FS – Reported in literature 1,4,20  
- EM – Reported in literature 5  
- IP – Reported in literature 1,2  
- Purification – Reported in literature 3

Working Dilutions

- Flow Cytometry:  
  - Purified (UNLB) antibody: ≤ 1 µg/10⁶ cells  
  - FITC, BIOT, and AF488 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 pure 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/NaNO₃. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaNO₃. Store at 2-8°C.
- The R-phycocerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaNO₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Alexa Fluor 488 (AF488) conjugate is supplied as 0.1 mg in 0.2 mL of PBS/NaNO₃. 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. Salomonsen J, Dunon D, Skjødt K, Thorpe D, Vainio O, Kaufman J. Chicken major histocompatibility complex-encoded B-G antigens are found on many cell types that are important for the immune system. Proc Natl Acad Sci USA. 1991;88:1359-63. (IP, IHC-FS, FC)
7. Katsuo K, Vainio O. Thymocyte emigration in the chicken: an over-representation of CD4+ cells over CD8+ in the periphery. Immunology. 1996;89:419-23. (FC)
11. Juul-Madsen HR, Dalgaard TS, Renvtved CM, Jensen KH, Burmstead N. Immune response to a killed infectious bursal disease virus vaccine in inbred chicken lines with different major histocompatibility complex haplotypes. Poult Sci. 2006;85:986-98. (FC)