Mouse Anti-Chicken Bu-1

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Format</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>8395-01</td>
<td>Purified (UNLB)</td>
<td>0.5 mg</td>
</tr>
<tr>
<td>8395-02</td>
<td>Fluorescein (FITC)</td>
<td>0.5 mg</td>
</tr>
<tr>
<td>8395-08</td>
<td>Biotin (BIOT)</td>
<td>0.5 mg</td>
</tr>
<tr>
<td>8395-09</td>
<td>R-phycoerythrin (PE)</td>
<td>0.1 mg</td>
</tr>
<tr>
<td>8395-30</td>
<td>Alexa Fluor® 488 (AF488)</td>
<td>0.1 mg</td>
</tr>
<tr>
<td>8395-31</td>
<td>Alexa Fluor® 647 (AF647)</td>
<td>0.1 mg</td>
</tr>
</tbody>
</table>

### Overview

**Clone**
AV20

**Isotype**
Mouse (BALB/c) IgG1 \(\kappa\)

**Immunogen**
Chicken peripheral blood lymphocytes and splenocytes

**Specificity**
Chicken Bu-1; Mr 70 kDa

**Alternate Name(s)**
ChB6

### Description

Chicken Bu-1, a product of the Bu-1\(^a\) and Bu-1\(^b\) alleles, is a type I transmembrane glycosylated disulfide-linked homodimer. The monoclonal antibody AV20 recognizes a monomorphic determinant on the Bu-1 B cell-associated alloantigens of both RPL 6(3) (Bu-1a) and 7(2) (Bu-1b) lines of inbred chickens. The antibody also identifies B cells in partially inbred birds. Bu-1 is found on 85-90% of bursal cells, 2-8% of thymocytes, 15-27% of spleen cells, and 2-18% of peripheral blood cells. It is also expressed on subsets of macrophages and monocytes but not on granulocytes, erythrocytes, or thrombocytes. The monoclonal antibody AV20 does not cross react with turkey cells when analyzed by flow cytometry.

### Applications

- **FC** – Quality tested \(^1,5,7,13-26\)
- **IHC-FS** – Reported in literature \(^2-8\)
- **IHC-PS** – Reported in literature \(^9-11\)
- **ICC** – Reported in literature \(^1\)
- **IP** – Reported in literature \(^1,12\)

### Working Dilutions

**Flow Cytometry**

- Purified (UNLB) antibody: \(\leq 1 \mu g/10^6 \) cells
- FITC, BIOT, and AF488 conjugates: \(\leq 1 \mu g/10^6 \) cells
- PE conjugate: \(\leq 0.2 \mu g/10^6 \) cells
- AF647 conjugate: \(\leq 0.1 \mu g/10^6 \) cells

For flow cytometry, the suggested use of these reagents is in a final volume of 100 \(\mu L\).

**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/Na₂. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/Na₂. Store at 2-8°C.
- The R-phycocerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/Na₂ and a stabilizing agent. Store at 2-8°C. Do not freeze!
- The Alexa Fluor® 488 (AF488) and Alexa Fluor® 647 (AF647) conjugates are supplied as 0.1 mg in 0.2 mL of PBS/Na₂. 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 (M)SDS.

References


Alexa Fluor® 488, 647, 700 and Pacific Blue™ are provided under an agreement between Molecular Probes, Inc. (a wholly owned subsidiary of Invitrogen Corporation), and Southern Biotechnology Associates, Inc., and the manufacturer, use, sale or import of this product may be subject to one or more U.S. patents, pending applications, and corresponding non-U.S. equivalents, owned by Molecular Probes, Inc. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and the product of research conducted by the buyer (whether the buyer is an academic or for-profit entity). The buyer cannot sell or otherwise transfer this product (a) its components or (c) materials made using this product or its components to a third party. (b) or otherwise use this product or its components or materials made using this product or its components for Commercial Purposes. Commercial Purposes mean any activity by a party for commercial purposes and may include, but is not limited to: (1) use of the product or its components in manufacturing, (2) sale of the product or its components to provide a service, information, or data, (3) use of the product or its components for therapeutic, diagnostic or prophylactic purposes; or (4) resale of the product or its components, whether or not such product or its components are resold for use in research. For information on purchasing a license to this product for any other use, contact Molecular Probes, Inc., Business Development, 2985 Willow Creek Road, Eugene, OR 97402, USA; Tel: (541) 465-8300. Fax: (541) 335-0554.

Corporate Offices: 160 Oxo Moor Blvd • Birmingham, AL 35209 • USA Mailing Address: P.O. Box 26221 • Birmingham, AL 35260 • USA Tel: 205.945.1774 • U.S. and Canada: 800.722.2255 • Fax: 205.945.8768 Email: info@southernbiotech.com Website: www.southernbiotech.com

TB8395 27-May-15