Mouse Anti-Feline CD8

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Form</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>8120-01</td>
<td>Purified (UNLB) Antibody</td>
<td>0.5 mg</td>
</tr>
<tr>
<td>8120-02</td>
<td>Fluorescein (FITC) Conjugate</td>
<td>0.5 mg</td>
</tr>
<tr>
<td>8120-08</td>
<td>Biotin (BIOT) Conjugate</td>
<td>0.5 mg</td>
</tr>
<tr>
<td>8120-09</td>
<td>R-phycoerythrin (R-PE) Conjugate</td>
<td>0.1 mg</td>
</tr>
</tbody>
</table>

**DESCRIPTION**

Clone: fCD8  
Ig Isotype: Mouse IgG\textsubscript{1\kappa}  
Specificity: Feline CD8, Mr 71 kDa (38/31 kDa under reducing conditions).

Feline CD8, a member of the immunoglobulin superfamily of cell surface receptors, is a type II transmembrane glycoprotein that is expressed as a heterodimer on the “suppressor/cytotoxic” subpopulation of peripheral T lymphocytes. It is present on approximately 63% of thymocytes, 9% of splenocytes, 20% of lymph node cells, and 15% of peripheral blood lymphocytes.\(^1,2\) CD8 functions as a co-receptor with MHC Class I-restricted T cell receptors in antigen recognition.

**RESEARCH APPLICATIONS**

- Flow cytometry \(^1-3\)
- Immunohistochemistry (acetone-fixed, frozen tissue sections) \(^3\)
- Immunoprecipitation \(^1\)

**CHARACTERIZATION**

To ensure lot-to-lot consistency, each batch of monoclonal antibody is tested by flow cytometry to conform to characteristics of a standard reference reagent. Representative data are included in this product insert.

**WORKING DILUTIONS**

- **Flow Cytometry:**
  - Fluorescein conjugate: ≤ 1 µg/10\(^6\) cells
  - Biotin conjugate: ≤ 1 µg/10\(^6\) cells
  - R-phycoerythrin conjugate: ≤ 0.2 µg/10\(^6\) cells

- **Other Applications:** Since applications vary, you should determine the optimum working dilution of the product that is appropriate for your specific need.

*For Research Use Only. Not for Diagnostic or Therapeutic Use.*
IMMUNOFLUORESCENT STAINING

Product: Mouse Anti-Feline CD8-R-PE
Cat. No.: 8120-09
Amount Used: 0.2 μg/10^6 cells

Peripheral blood mononuclear cells from a healthy domestic cat were double-stained with mouse anti-feline CD5-FITC (Cat. No. 8100-02) and mouse anti-feline CD8-R-PE. Small lymphocytes were then gated and analyzed by two-color flow cytometry.

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/NaN₃. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (R-PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- Protect conjugated forms from light. Each reagent is stable for the period shown on the bottle label if stored as directed.

WARNING

Reagents contain sodium azide. Sodium azide is very toxic if ingested or inhaled. Avoid contact with skin, eyes, or clothing. Wear eye or face protection when handling. If skin or eye contact occurs, wash with copious amounts of water. If ingested or inhaled, contact a physician immediately. Sodium azide yields toxic hydrazoic acid under acidic conditions. Dilute azide-containing compounds in running water before discarding to avoid accumulation of potentially explosive deposits in lead or copper plumbing.

REFERENCES