CD11a (G-25.2)

FORMS

<table>
<thead>
<tr>
<th>Form</th>
<th>Catalog number</th>
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</thead>
<tbody>
<tr>
<td>FITC</td>
<td>340874</td>
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</tbody>
</table>

DESCRIPTION

Specificity

The CD11a antibody (Anti-LFA-1α) recognizes a 180-kilodalton (kDa) chain of the leucocyte function–associated antigen-1 (LFA-1). LFA-1, a member of a subfamily of integrin receptors, is a leucocyte adhesion receptor that binds to an intercellular adhesion molecule on target tissues. This subfamily consists of three heterodimeric proteins that share a common noncovalently-associated β chain (CD18 antigen, 95 kDa) but possess distinct α subunits recognized by CD11a (Anti-LFA-1α), CD11b (Leu-15), and CD11c (Leu-M5).

Antigen Distribution

The CD11a antigen is expressed on virtually all normal peripheral blood leucocytes. It is essential for many immune responses that require cell-to-cell contact, such as lymphocyte adhesion, natural killer (NK) and T-lymphocyte cytolysis, and T-lymphocyte proliferation. Activation of lymphocytes through the T-cell antigen receptor upregulates LFA-1 function, converting the antigen to a high-avidity state. Expression of LFA-1 on monocytes is upregulated by γ-interferon (IFN-γ). While normal cells possess both the α and β LFA-1 chains, cells of subjects with some leukemias, lymphomas, or leucocyte adhesion deficiency may lack the entire LFA-1 molecule or the α or β chain. The absence of LFA-1 on tumor cells may provide a mechanism for their escape from immune surveillance.

Clone

The CD11a antibody, clone G-25.2, is derived from the hybridization of Sp2/0 mouse myeloma cells with spleen cells isolated from BALB/c mice immunized with human cytotoxic T lymphocytes.

Composition

The CD11a antibody is composed of mouse IgG2a heavy chains and kappa light chains.

Product configuration

The following are supplied in phosphate buffered saline (PBS) containing a stabilizer and a preservative.

<table>
<thead>
<tr>
<th>Form</th>
<th>Number of tests</th>
<th>Volume per test (µL)a</th>
<th>Amount provided (µg)</th>
<th>Total volume (mL)</th>
<th>Concentration (µg/mL)</th>
<th>Stabilizer</th>
<th>Preservative</th>
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<tbody>
<tr>
<td>FITC</td>
<td>100</td>
<td>20</td>
<td>12.5</td>
<td>2.0</td>
<td>6.25</td>
<td>Gelatin</td>
<td>0.1% Sodium azide</td>
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</tbody>
</table>

Purity

FITC: ≤5% free fluorophore at bottling, as measured by size-exclusion chromatography (SEC)

Analyte Specific Reagent. Analytical and performance characteristics are not established.
HANDLING AND STORAGE

Store vials at 2°C–8°C. Conjugated forms should not be frozen. Protect from exposure to light. Each reagent is stable until the expiration date shown on the bottle label when stored as directed.

WARNING

All biological specimens and materials coming in contact with them are considered biohazards. Handle as if capable of transmitting infection⁸,⁹ and dispose of with proper precautions in accordance with federal, state, and local regulations. Never pipette by mouth. Wear suitable protective clothing, eyewear, and gloves.

CHARACTERIZATION

To ensure consistently high-quality reagents, each lot of antibody is tested for conformance with characteristics of a standard reagent.

WARRANTY

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REFERENCES


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