**Technical Data Sheet**

**PE Mouse Anti-Rat CD11a**

**Product Information**

**Material Number:** 550972  
**Alternate Name:** Integrin αL chain, LFA-1 α chain  
**Size:** 0.1 mg  
**Concentration:** 0.2 mg/ml  
**Clone:** WT.1  
**Immunogen:** PHA-stimulated rat splenocytes and rat thymic lymphoma FTL-43  
**Isotype:** Mouse (BALB/c) IgG2a, κ  
**Reactivity:** QC Testing: Rat  
**Storage Buffer:** Aqueous buffered solution containing ≤0.09% sodium azide.

**Description**

The WT.5 antibody reacts with the α subunit of LFA-1 (αLβ2 integrin, CD11a/CD18), a heterodimeric surface glycoprotein which is found on the majority of leukocytes, but not on peritoneal macrophages or peritoneal mast cells. LFA-1 mediates a variety of heterotypic and homotypic intercellular adhesions through interaction with ICAM-1 (CD54) and ICAM-2 (CD102). WT.1 mAb recognizes both the activated and unactivated forms of LFA-1. It inhibits the binding of LFA-1 to ICAM-1 in several in vitro assays, including binding of Concanavalin-A-stimulated lymphocytes (Con A blasts) to purified ICAM-1 and Mg2+-dependent aggregation of concanavalin A-stimulated blasts. It has also been reported to inhibit leukocyte infiltration in several in vivo models of inflammation.

This antibody is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.

**Preparation and Storage**

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed by gel filtration chromatography.

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

**Application Notes**

**Application**  
Flow cytometry  
Routinely Tested

**Suggested Companion Products**

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<tbody>
<tr>
<td>553457</td>
<td>PE Mouse IgG2a, κ Isotype Control</td>
<td>0.1 mg</td>
<td>G155-178</td>
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</tbody>
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**Product Notices**

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/pharmingen/colors.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

**References**


**BD Biosciences**

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