**FITC Mouse Anti-Rat CD11b/c**

**Product Information**

**Material Number:** 554861  
**Alternate Name:** Itgam/Integrin, alpha M, C3bi receptor, CR3; Itgad/Integrin, alpha D  
**Size:** 0.5 mg  
**Concentration:** 0.5 mg/ml  
**Clone:** OX-42  
**Immunogen:** Resident peritoneal cells from (PVG.RT1[c] x PVG.RT1[u]) and (PVG.RT1[c] x PVG.RT1[a]) F1-hybrid rat  
**Isotype:** Mouse (BALB/c) IgG2a, κ  
**Reactivity:** QC Testing: Rat  
**Storage Buffer:** Aqueous buffered solution containing ≤0.09% sodium azide.

**Description**

The OX-42 monoclonal antibody specifically binds to the CR3 complement (C3bi) receptor found on most monocytes, granulocytes, macrophages, dendritic cells, and microglia. It appears to recognize a common epitope shared by CD11b and CD11c (integrin αM and αX chains). OX-42 antibody inhibits C3bi binding activity.

**Preparation and Storage**

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.  
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.  
The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed.

**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>
</tr>
</thead>
<tbody>
<tr>
<td>553456</td>
<td>FITC Mouse IgG2a, κ Isotype Control</td>
<td>0.25 mg</td>
<td>G155-178</td>
</tr>
<tr>
<td>554656</td>
<td>Stain Buffer (FBS)</td>
<td>500 mL</td>
<td>(none)</td>
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<tr>
<td>554657</td>
<td>Stain Buffer (BSA)</td>
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<tr>
<td>561691</td>
<td>FITC Mouse Anti-Rat CD11b/c</td>
<td>50 µg</td>
<td>OX-42</td>
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</tbody>
</table>

**Product Notices**

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.  
2. An isotype control should be used at the same concentration as the antibody of interest.  
3. 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.  
4. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.  

**References**

Ford AL, Goodsell AL, Hickey WF, Sedgwick JD. Normal adult ramified microglia separated from other central nervous system macrophages by flow cytometric sorting. Phenotypic differences defined and direct ex vivo antigen presentation to myelin basic protein-reactive CD4+ T cells compared. *J Immunol*. 1995; 154(9):4309-4321. (Biology)  
Robinson AP, White TM, Mason DW. Macrophage heterogeneity in the rat as delineated by two monoclonal antibodies MRC OX-41 and MRC OX-42, the latter recognizing complement receptor type 3. *Immunology*. 1986; 57(2):239-247. (Immunogen)  
Shinoda M, Hoffer BJ, Olson L. Interactions of neurotrophic factors GDNF and NT-3, but not BDNF, with the immune system following fetal spinal cord transplantation. *Brain Res*. 1996; 721(1-2):153-167. (Biology)  