**Purified NA/LE Rat Anti-CD11b**

**Product Information**

**Material Number:** 553307  
**Alternate Name:** Itgam; Integrin alpha-M; Ly-40; Mac-1a; Mac-1 alpha; CR3A; CR-3 alpha chain  
**Size:** 0.5 mg  
**Concentration:** 1.0 mg/ml  
**Clone:** M1/70  
**Immunogen:** Mouse Splenic Cells  
**Isotype:** Rat (DA) IgG2b, κ  
**Reactivity:** QC Testing: Mouse  
**Storage Buffer:** No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2µm sterile filtered. Endotoxin level is ≤0.01 EU/µg (≤0.001 ng/µg) of protein as determined by the LAL assay.

**Description**

The M1/70 monoclonal antibody specifically binds to CD11b, also known as Integrin alpha M (Itgam or αM). CD11b is a 170-kDa type 1 transmembrane glycoprotein and belongs to the Integrin alpha chain family. CD11b serves as the alpha chain of the heterodimeric Mac-1 integrin (CD11b/CD18, αMβ2), also known as complement receptor 3 (CR3). Mac-1 mediates adhesion to ICAM-1 (CD54), ICAM-2 (CD102), fibrinogen and binding to C3bi. Mac-1 is expressed at varying levels on granulocytes, macrophages, myeloid-derived dendritic cells, natural killer cells, microglia, and B-1 B lymphocytes. Mac-1 expression is rapidly upregulated on neutrophils after activation, in the same time period that CD62L (L-selectin) is shed from the cell surface. The M1/70 antibody reportedly blocks cell adherence and C3bi binding but does not block cell-mediated lysis. Cross-reaction of the M1/70 antibody with CD11b expressed on human monocytes, polymorphonuclear leukocytes, and NK cells has been reported.

**Preparation and Storage**

Store undiluted at 4°C.  
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.  
This preparation contains no preservatives, thus it should be handled under aseptic conditions.

**Application Notes**

**Application**

<table>
<thead>
<tr>
<th>Application</th>
<th>Routinely Tested</th>
<th>Reported</th>
<th>Not Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow cytometry</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunohistochemistry-frozen</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunoprecipitation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blocking</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunohistochemistry-paraffin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Western blot</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Suggested Companion Products**

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>553985</td>
<td>Purified NA/LE Rat IgG2b, κ Isotype Control</td>
<td>0.5 mg</td>
<td>A95-1</td>
</tr>
<tr>
<td>553308</td>
<td>Purified Rat Anti-CD11b</td>
<td>0.5 mg</td>
<td>M1/70</td>
</tr>
<tr>
<td>554656</td>
<td>Stain Buffer (FBS)</td>
<td>500 mL</td>
<td>(none)</td>
</tr>
<tr>
<td>554657</td>
<td>Stain Buffer (BSA)</td>
<td>500 mL</td>
<td>(none)</td>
</tr>
</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. Species testing during development may have been performed with a different format of the same clone. Selected applications have been tested for cross-reactivity.  
References