

## DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse CD11b/Integrin αM. Cross-reaction with human CD11b/Integrin αM has been reported (1, 2).
<b>Source</b>	Monoclonal Rat IgG <sub>2B</sub> Clone # M1/70
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Con A-activated C57BL/10 splenocytes
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

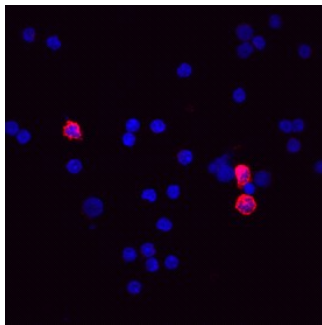
## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25 μg/10 <sup>6</sup> cells	Mouse splenocytes
<b>Immunocytochemistry</b>	8-25 μg/mL	See Below
<b>Immunohistochemistry</b>	8-25 μg/mL	No Sample Info
<b>Immunoprecipitation</b>	Springer, T.A. <i>et al.</i> (1979) Eur. J. Immunol. <b>9</b> :301.	

## DATA

### Immunocytochemistry



**CD11b/Integrin αM in Mouse Splenocytes.** CD11b/Integrin αM was detected in immersion fixed mouse splenocytes using Rat Anti-Mouse CD11b/Integrin αM Biotinylated Monoclonal Antibody (Catalog # BAM1124) at 10 μg/mL for 3 hours at room temperature. Cells were stained using the Northern-Lights™ 557-conjugated Streptavidin (red; Catalog # NL999) and counterstained with DAPI (blue). View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

The Integrin family proteins are heterodimeric transmembrane receptors composed of an α and a β subunit. The Integrin αM subunit, also known as MAC-1α subunit or CD11b, combines with the Integrin β2 subunit (CD18) to form the non-covalent heterodimer Integrin αM/β2, also known as MAC-1 and complement receptor type 3 (CR3). Integrin αM/β2 is expressed on granulocytes, macrophages, dendritic cells and natural killer cells. Upon activation, αM/β2 can bind several ligands (including ICAM-1, fibrinogen, and the C3 complement fragment, C3bi) to mediate phagocyte adhesion, migration and ingestion of complement-opsonized particles.

### References:

1. Beller, D.J. *et al.* (1982) J. Exp. Med. **156**:1000.
2. Ault, K.A. and T.A. Springer (1981) J. Immunol. **126**:359.