

#### DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects recombinant mouse CD11b/Integrin alpha M in Western blot.
<b>Source</b>	Monoclonal Rat IgG <sub>2B</sub> Clone # 908649
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Chinese hamster ovary cell line CHO-derived recombinant mouse Integrin alpha M beta 2 Phe17-Asn1105 (Integrin alpha M), Gln24-Asn702 (Integrin beta 2) Accession # NP_032427 (Integrin alpha M) & P11835 (Integrin beta 2)
<b>Conjugate</b>	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
<b>Formulation</b>	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

#### 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>	0.25-1 µg/10 <sup>6</sup> cells	RAW 264.7 Mouse Monocyte/Macrophage Cell Line

#### PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

#### BACKGROUND

The Integrin family proteins are heterodimeric transmembrane receptors composed of an  $\alpha$  and a  $\beta$  subunit. The Integrin  $\alpha$ M subunit, also known as MAC-1 $\alpha$  subunit or CD11b, combines with the Integrin  $\beta$ 2 subunit (CD18) to form the non-covalent heterodimer Integrin  $\alpha$ M/ $\beta$ 2, also known as MAC-1 and complement receptor type 3 (CR3). Integrin  $\alpha$ M/ $\beta$ 2 is expressed on granulocytes, macrophages, dendritic cells and natural killer cells. Upon activation,  $\alpha$ M/ $\beta$ 2 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 (1,2).

#### 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.

#### PRODUCT SPECIFIC NOTICES

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