

DESCRIPTION

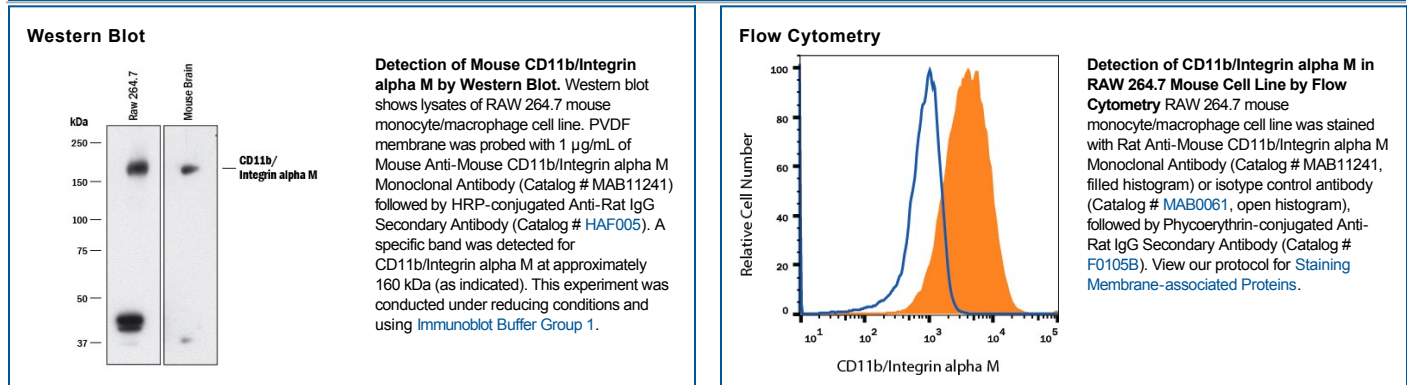
Species Reactivity	Mouse
Specificity	Detects recombinant mouse CD11b/Integrin alpha M in Western blot.
Source	Monoclonal Rat IgG _{2B} Clone # 908649
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse Integrin alpha M beta 2 Phe17-Asn1105 (Integrin alpha M), Gln24-Asn702 (Integrin beta 2) Accession # NP_032427 (Integrin alpha M) & P11835 (Integrin beta 2)
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Flow Cytometry	0.25 µg/10 ⁶ cells	See Below

DATA



PREPARATION AND STORAGE

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

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-1 α 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.