

# Anti-CD11b Antibody [4G2]

## RT1107



<b>Product Type:</b>	Mouse monoclonal IgG1, primary antibodies
<b>Species reactivity:</b>	Human, Mouse
<b>Applications:</b>	WB, IP, IF, FC
<b>Molecular Wt:</b>	170kDa
<b>Clone number:</b>	4G2

**Description:** Integrin  $\alpha$ M, also designated complement component receptor-3  $\alpha$ , CD11b (p170), macrophage antigen a polypeptide, cell surface glycoprotein Mac-1  $\alpha$  subunit, MAC1A, MO1A and ITGAM) is a cell adhesion molecule that acts as a receptor for cell surface ligands such as intracellular adhesion molecules (ICAMs) or soluble ligands. Integrins are heterodimeric proteins that contain an  $\alpha$  chain and  $\beta$  chain. Integrin  $\alpha$ M combines with the Integrin  $\beta$ 2 to form a leukocyte-specific integrin referred to as macrophage receptor 1 (Mac-1), or inactivated-C3b (iC3b) receptor 3 (CR3). Integrin  $\alpha$ M/ $\beta$ 2 is important in the adherence of neutrophils and monocytes to stimulated endothelium, and also in the phagocytosis of complement coated particles.

**Immunogen:** peptide

**Positive control:** PBL, RAW 264.7.

**Subcellular location:** Membrane

**Database links:** SwissProt: P11215 Human

### Recommended Dilutions:

<b>WB</b>	1:500
<b>IP</b>	1-2 $\mu$ g per 100-500 $\mu$ g of total protein(1 ml of cell lysate)
<b>IF</b>	1:50-500
<b>FC</b>	1 $\mu$ g per $1 \times 10^6$ cells

**Storage Buffer:** 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**Storage Instruction:** Store at +4 $^{\circ}$ C

**Purity:** Protein A affinity purified.

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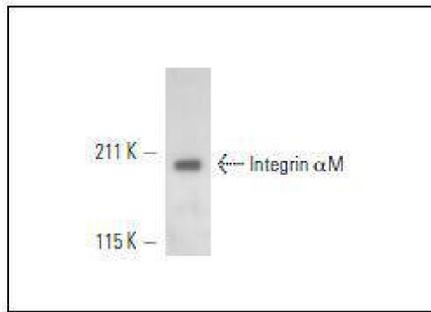
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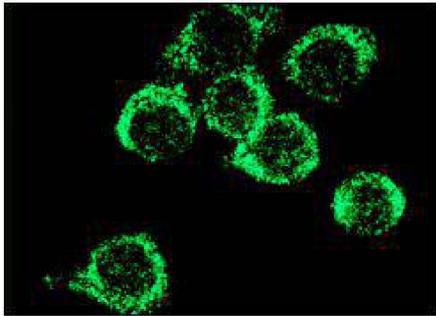
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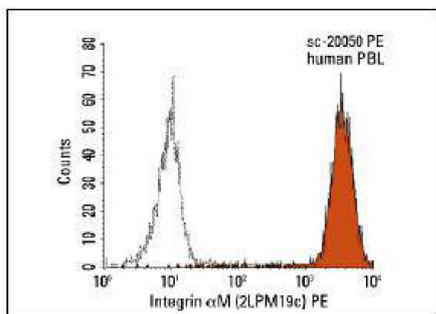
## Images



**Fig1:** Western blot analysis of Integrin  $\alpha$ M expression in human PBL whole cell lysate immunoprecipitated with Integrin  $\alpha$ M (2LPM19c) and detected with Integrin  $\alpha$ M (H-61).



**Fig2:** Immunofluorescence staining of methanol-fixed RAW 264.7 cells showing membrane staining.



**Fig3:** FCM analysis of human peripheral blood leukocytes. Black line histogram represents the isotype control, normal mouse IgG1.

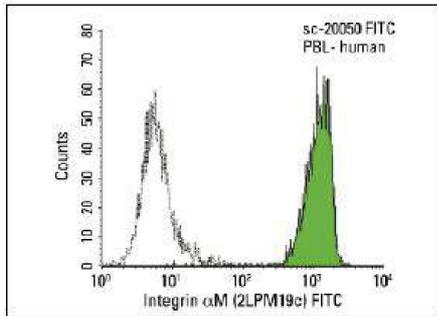
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**Fig4:** FCM analysis of human peripheral blood leukocytes. Black line histogram represents the isotype control, normal mouse IgG1.

**Note:** All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

### Background References

1. Nueda, A., et al. 1995. Hematopoietic cell-type-dependent regulation of leukocyte integrin functional activity: CD11b and CD11c expression inhibits LFA-1-dependent aggregation of differentiated U937 cells. *Cell. Immunol.* 164: 163-169.
2. Li, R., et al. 1995. A peptide derived from the intercellular adhesion molecule-2 regulates the avidity of the leukocyte Integrins CD11b/CD18 and CD11c/CD18. *J. Cell Biol.* 129: 1143-115

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