

Datasheet



Mouse mAb to **CD11b**
Clone **EBS-CD-010**
Isotype **IgG1-κ**

Source

A BALB/c mouse was immunized with human neutrophils.
Fusion partner: P3-X63-Ag8.653.

Specifications

Integrin α M (also designated complement component receptor 3 α -chain; CD11b (p170); macrophage antigen α polypeptide; cell surface glycoprotein Mac-1 α -subunit; CR3 α -chain; 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 α -chain and a β -chain. Integrin α M combines with Integrin β 2 (CD18) to form a leukocyte-specific integrin referred to as macrophage receptor-1 (Mac-1) or inactivated-C3b (iC3b) receptor 3 (CR3). Integrin α M- β 2 is important in the adherence of neutrophils and monocytes to stimulated endothelium, and also in the phagocytosis of complement coated particles.

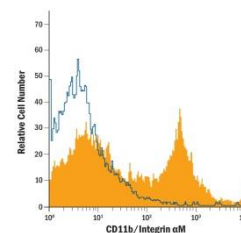


Figure 1: Human PBMCs stained for CD11b (FACS).

Species reactivity

Positive: human.
Negative: mouse.

Applications

EBS-CD-10 is commonly used as a microglial marker in tissues derived from the nervous system.

Flow cytometry	Frozen sections	Immunofluorescence	Paraffin sections
+	+	+	-

Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02% sodium azide.

Stored at 4°C-8°C, shelf life is at least 24 months after purchase.

Dilution advice

- Flow cytometry (0,5-1,0 μ g/million cells in 0,1 ml).
- Immunofluorescence (0,5-1,0 μ g/ml).
- Immunohistology (1-2 μ g/ml for 30 min at RT; an appropriate antigen retrieval method for staining of formalin-fixed tissues has not been established to date).

Positive control

Human monocytes and granulocytes. Human lymph node and tonsil.

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References

- Beekhuizen H, et al., *J Immunol.* **145(2)**:510-8 (1990).
- Argenbright LW et al., *J Leukoc Biol.* **49(3)**:253-7 (1991).
- Zhou L, et al. *J Biol Chem.* **269(25)**:17075-9 (1994).
- Miller LJ, et al. *J Immunol.* **137(9)**:2891-900 (1986).