

# Datasheet



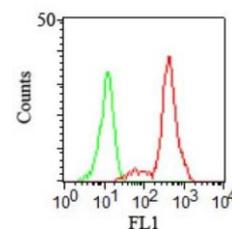
Mouse mAb to **CD11c**  
Clone **EBS-CD-011**  
Isotype **IgG1-κ**

## Source

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

## Specifications

Integrin  $\alpha$ X (CD11c, leukocyte surface antigen p150/95, CR4, Axb2) is a type 1 transmembrane protein that traditionally combines with  $\beta$ 2 chain to form a leukocyte-specific integrin known as inactivated-C3b (iC3b) receptor 4 (CR4). Integrin  $\alpha$ X/ $\beta$ 2 shares similar properties of the Integrin  $\alpha$ M/ $\beta$ 2 in mediating adherence of neutrophils and monocytes to stimulated endothelial cells and in phagocytosis of complement coated particles. Abnormal expression of Integrin  $\alpha$ X is characteristic of hairy cell leukemia (HCL) and is dependent upon activation of proto-oncogenes Ras and JunD. Integrin  $\alpha$ X is present on dendritic cells, macrophages and NK-cells. Upon activation, DCs present in skin (Langerhans cells, lining of nose, lung, stomach, intestine and blood can migrate to lymphoid tissues and interact with T and B-cells to initiate and shape the immune response.



**Figure 1:** Human PBMCs stained with EBS-CD-011 (FACS).

## Species reactivity

Positive: human.

## Applications

CD11c is expressed in hairy cell leukemias, acute non-lymphocytic leukemias and some B-cell chronic lymphocytic leukemias. Marker for macrophages and NK-cells. EBS-CD-11 blocks the binding of CD11c to fibrinogen.

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  $\mu$ g/million cells in 0,1 ml).
- Immunofluorescence (0,5-1,0  $\mu$ g/ml).
- Immunohistology (1-2  $\mu$ 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 dendritic cells. Human lymph node and tonsil.

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## References

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- Zhou JQ, et al. *Blood* **82**:800-6 (1993).
- Nicolaou, F., et al. *Blood* **101**: 4033-4041 (2003).
- Edwards, A.D. et al. *J. Immunol.* **171**: 47-60 (2003).