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## Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Integrin $\alpha$ X (h4): 293T Lysate: sc-158645

## BACKGROUND

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  $\alpha$ M/ $\beta$ 2 Integrin 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 Jun D. Proteins and DNA elements that influence transcription of Integrin  $\alpha$ X include Sp1 and Sp1-like factors, AP-1 family, C/EBP, Oct-2 and PU.1. Integrin  $\alpha$ X is present on monocyte derivative dendritic cells (DCs), macrophages and NK cells. Upon activation, DCs present in skin (Langerhans cells), lining of nose, lung, stomach, intestine and blood, and can migrate to lymphoid tissues and interact with T and B cells to initiate and shape the immune response.

## REFERENCES

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4. Nicolaou, F., et al. 2003. CD11c gene expression in hairy cell leukemia is dependent upon activation of the proto-oncogenes Ras and Jun D. *Blood* 101: 4033-4041.
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7. Tian, T., et al. 2005. *In vivo* depletion of CD11c<sup>+</sup> cells delays the CD4<sup>+</sup> T cell response to *Mycobacterium tuberculosis* and exacerbates the outcome of infection. *J. Immunol.* 175: 3268-3272.
8. Scumpia, P.O., et al. 2005. CD11c<sup>+</sup> dendritic cells are required for survival in murine polymicrobial sepsis. *J. Immunol.* 175: 3282-3286.
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## CHROMOSOMAL LOCATION

Genetic locus: ITGAX (human) mapping to 16p11.2.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PRODUCT

Integrin  $\alpha$ X (h4): 293T Lysate represents a lysate of human Integrin  $\alpha$ X transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

## APPLICATIONS

Integrin  $\alpha$ X (h4): 293T Lysate is suitable as a Western Blotting positive control for human reactive Integrin  $\alpha$ X antibodies. Recommended use: 10-20  $\mu$ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.