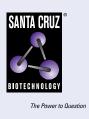
SANTA CRUZ BIOTECHNOLOGY, INC.

Integrin αX (HC1/1): sc-53998



BACKGROUND

Integrin αX (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 αX is characteristic of hairy cell leukemia (HCL) and is dependent upon activation of proto-oncogenes Ras and JunD. Proteins and DNA elements that influence transcription of Integrin αX is present on monocyte deriv-ative dendritic cells (DCs), 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.

REFERENCES

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- Binder, R.J., et al. 2000. Cutting edge: heat shock protein gp96 induces maturation and migration of CD11c⁺ cells *in vivo*. J. Immunol. 165: 6029-6035.
- Langeggen, H., et al. 2002. Human umbilical vein endothelial cells express complement receptor 1 (CD35) and complement receptor 4 (CD11c/CD18) *in vitro*. Inflammation 26: 103-110.
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- 7. Scumpia, P.O., et al. 2005. CD11c⁺ dendritic cells are required for survival in murine polymicrobial sepsis. J. Immunol. 175: 3282-3286.

CHROMOSOMAL LOCATION

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

SOURCE

Integrin αX (HC1/1) is a mouse monoclonal antibody raised against monocytic U-937 phorbol ester-treated cells of human origin.

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PRODUCT

Each vial contains 200 μg lgG_1 kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Integrin α X (HC1/1) is available conjugated to either phycoerythrin (sc-53998 PE) or fluorescein (sc-53998 FITC), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM.

APPLICATIONS

Integrin α X (HC1/1) is recommended for detection of Integrin α X of human origin by immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and flow cytometry (1 µg per 1 x 10⁶ cells).

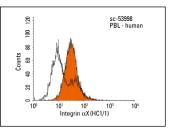
Suitable for use as control antibody for Integrin α X siRNA (h): sc-35695, Integrin α X shRNA Plasmid (h): sc-35695-SH and Integrin α X shRNA (h) Lentiviral Particles: sc-35695-V.

Molecular Weight of Integrin aX: 145 kDa.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



Integrin αX (HC1/1): sc-53998. Indirect FCM analysis of human peripheral blood leukocytes stained with Integrin αX (HC1/1), followed by PE-conjugated goat anti-mouse IgG: sc-3738. Black line histogram represents the isotype control, normal mouse IgG₁: sc-3877.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.



See Integrin αX (B-6): sc-46676 for Integrin αX antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor[®] 488, 546, 594, 647, 680 and 790.