# Integrin αX (2Q865): sc-71455



The Power to Question

# **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 JunD. 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 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 γp96 induces maturation and migration of CD11c+ cells in vivo. J. Immunol. 165: 6029-6035.
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## **STORAGE**

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

# **PROTOCOLS**

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

#### **CHROMOSOMAL LOCATION**

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

## **SOURCE**

Integrin  $\alpha X$  (20865) is a mouse monoclonal antibody raised against monocytic U937 phorbol ester-treated cells of human origin.

#### **PRODUCT**

Each vial contains 200  $\mu g \; lgG_1$  kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Integrin  $\alpha X$  (20865) is available conjugated to either phycoerythrin (sc-71455 PE) or fluorescein (sc-71455 FITC), 200  $\mu g/ml$ , for WB (RGB), IF, IHC(P) and FCM.

# **APPLICATIONS**

Integrin  $\alpha X$  (2Q865) is recommended for detection of Integrin  $\alpha X$  of human origin by immunoprecipitation [1-2  $\mu g$  per 100-500  $\mu g$  of total protein (1 ml of cell lysate)] and flow cytometry (1  $\mu g$  per 1 x 10<sup>6</sup> cells).

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

Molecular Weight of Integrin  $\alpha$ X: 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).

# **RESEARCH USE**

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



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

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