Integrin αX (D-8): sc-398708

BACKGROUND
Integrin αX (CD11C, leukocyte surface antigen p150,95, CR4, Axb2) is a type 1 transmembrane protein that traditionally combines with β2 chain to form a leukocyte-specific integrin known as inactivated-C3b (IC3b) receptor 4 (CR4). Integrin αX/β2 shares similar properties of the αM/β2 integrin 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 include Sp1 and Sp1-like factors, AP-1 family, C/EBP, Oct-2 and PU.1. Integrin αX is present on monocyte-derived 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

CHROMOSOMAL LOCATION
Genetic locus: Itgax (mouse) mapping to 7 F3.

SOURCE
Integrin αX (D-8) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 117-154 within an internal region of Integrin αX of mouse origin.

PRODUCT
Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Integrin αX (D-8) is available conjugated to agarose (sc-398708 AC), 500 µg/0.25 µg/ml agarose in 1 ml, for IP; to HRP (sc-398708 HRP), 200 µg/ml, for WB, IHC(IP) and ELISA; to either phycoerythrin (sc-398708 PE), fluorescein (sc-398708 FITC), Alexa Fluor® 488 (sc-398708 AF488), Alexa Fluor® 546 (sc-398708 AF546), Alexa Fluor® 594 (sc-398708 AF594) or Alexa Fluor® 647 (sc-398708 AF647), 200 µg/ml, for WB (RGB), IF, IHC(IP) and FCM; and to either Alexa Fluor® 680 (sc-398708 AF680) or Alexa Fluor® 790 (sc-398708 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-398708 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS
Integrin αX (D-8) is recommended for detection of Integrin αX of mouse and rat origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Integrin αX siRNA (m): sc-35696, Integrin αX shRNA Plasmid (m): sc-35696-SH and Integrin αX shRNA (m) Lentiviral Particles: sc-35696-V.

Molecular Weight of Integrin αX: 145 kDa.

Positive Controls: Integrin αX (m2): 293T Lysate: sc-178810.

RECOMMENDED SUPPORT REAGENTS
To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG BP-HRP: sc-516102 or m-IgG BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG BP-FITC: sc-516140 or m-IgG BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgG BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

DATA

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

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