Integrin αIIb (96-2C1): sc-21773

**BACKGROUND**
Integrins are heterodimers composed of noncovalently associated transmembrane α and β subunits. The 16 α and 8 β subunits heterodimerize to produce more than 20 different receptors. Most integrin receptors bind ligands that are components of the extracellular matrix, including fibronectin, collagen and vitronectin. Certain integrins can also bind to soluble ligands such as fibrinogen, or to counterreceptors on adjacent cells such as the intracellular adhesion molecules (ICAMs), leading to aggregation of cells. Ligands serve to cross-link or cluster integrins by binding to adjacent integrin receptors; both receptor clustering and ligand occupancy are necessary for the activation of integrin-mediated responses. In addition to mediating cell adhesion and cytoskeletal organization, integrins function as signaling receptors. Signals transduced by integrins play a role in many biological processes, including cell growth, differentiation, migration and apoptosis.

**REFERENCES**

**CHROMOSOMAL LOCATION**
Genetic locus: ITGA2B (human) mapping to 17q21.31; Itga2b (mouse) mapping to 11E1.

**SOURCE**
Integrin αIIb (96-2C1) is a mouse monoclonal antibody raised against Integrin αIIb from PBL cells of human 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 αIIb (96-2C1) is available conjugated to either phycoerythrin (sc-21773 PE) or fluorescein (sc-21773 FITC), 200 µg/ml, for IF, IHC(P) and FCM.

**APPLICATIONS**
Integrin αIIb (96-2C1) is recommended for detection of Integrin αIIb of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and flow cytometry [1 µg per 1 x 10^6 cells].

Suitable for use as control antibody for Integrin αIIb siRNA (h): sc-43554, Integrin αIIb siRNA (m): sc-45927, Integrin αIIb shRNA Plasmid (h): sc-43554-SH, Integrin αIIb shRNA Plasmid (m): sc-45927-SH, Integrin αIIb shRNA (h) Lentiviral Particles: sc-43554-V and Integrin αIIb shRNA (m) Lentiviral Particles: sc-45927-V.

Molecular Weight of Integrin αIIb: 136 kDa.

Positive Controls: HEL 92.1.7 cell lysate: sc-2270, MEG-01 cell lysate: sc-2283 or human platelet extract: sc-363773.

**RECOMMENDED SUPPORT REAGENTS**
To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

**DATA**
Integrin αIIb (96-2C1): sc-21773. Western blot analysis of Integrin αIIb expression in human PBL whole cell lysate under non-reducing conditions.

Integrin αIIb (96-2C1) PE: sc-21773 PE. FCM analysis of human peripheral blood leukocytes. Black line histogram represents the isotype control, normal mouse IgG1 κ: sc-2086.

**SELECT PRODUCT CITATIONS**

**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.

**PROTOCOLS**
For detailed protocols and support products, see our website at www.scbt.com.

**CONJUGATES**
See Integrin αIIb (B-9): sc-365938 for Integrin αIIb antibody conjugates, including AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647.