Integrin αIIb (M-148): sc-7310

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Integrins are heterodimers composed of noncovalently associated transmembrane α and β subunits. The 16α and 8β 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.

| CHROMOSOMAL LOCATION |
Genetic locus: ITGA2B (human) mapping to 17q21.31.

| SOURCE |
Integrin αIIb (M-148) is a mouse monoclonal antibody raised against medulloblastoma tissue.

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

Integrin αIIb (M-148) is available conjugated to agarose (sc-7310 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-7310 HRP), 200 µg/ml, for WB, IHCOP and ELISA; to either phycoerythrin (sc-7310 PE), fluorescein (sc-7310 FITC), Alexa Fluor® 488 (sc-7310 AF488), Alexa Fluor® 546 (sc-7310 AF546), Alexa Fluor® 594 (sc-7310 AF594) or Alexa Fluor® 647 (sc-7310 AF647), 200 µg/ml, for WB (RBG), IF, IHCOP and FCM; and to either Alexa Fluor® 680 (sc-7310 AF680) or Alexa Fluor® 790 (sc-7310 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.

| APPLICATIONS |
Integrin αIIb (M-148) is recommended for detection of Integrin αIIb of human origin by 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) and flow cytometry (1 µg per 1 x 10⁶ cells).

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

Molecular Weight of Integrin αIIb: 136 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

| 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.

Integrin αIIb (M-148): sc-7310. Western blot analysis of Integrin αIIb expression in Jurkat whole cell lysate.

Integrin αIIb (M-148) PE: sc-7310 PE. FCM analysis of human peripheral blood leukocytes. Black line histogram represents the isotype control, normal mouse IgG1 PE: sc-2866.

**SELECT PRODUCT CITATIONS**


