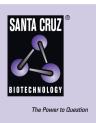
SANTA CRUZ BIOTECHNOLOGY, INC.

Integrin β2 (6G2): sc-59747



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

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- Drbal, K., Angelisova, P., Hilgert, I., Cerny, J., Novak, P. and Horejsi, V. 2001. A proteolytically truncated form of free CD18, the common chain of leukocyte integrins, as a novel marker of activated myeloid cells. Blood 98: 1561-1566.

CHROMOSOMAL LOCATION

Genetic locus: Itgb2 (mouse) mapping to 10 C1.

SOURCE

Integrin β 2 (6G2) is a mouse monoclonal antibody raised against alveolar macrophages of rat origin.

PRODUCT

Each vial contains 100 $\mu g~lg G_1$ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

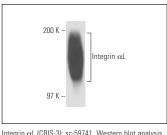
Integrin β 2 (6G2) is recommended for detection of Integrin β 2 of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and flow cytometry (1 µg per 1 x 10⁶ cells).

Suitable for use as control antibody for Integrin β 2 siRNA (m): sc-35676, Integrin β 2 shRNA Plasmid (m): sc-35676-SH and Integrin β 2 shRNA (m) Lentiviral Particles: sc-35676-V.

Molecular Weight of Integrin 62: 95 kDa.

Positive Controls: TK-1 whole cell lysate: sc-364798.

DATA



Integrin αL (CRIS-3): sc-59/41. Western blot analysi of Integrin αL expression in human thymus tissue extract under non-reducing conditions.

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

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



See **Integrin β2 (CTB104): sc-8420** for Integrin β2 antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor[®] 488, 546, 594, 647, 680 and 790.