

Integrin β 2 (2Q822): sc-71399

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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CHROMOSOMAL LOCATION

Genetic locus: ITGB2 (human) mapping to 21q22.3.

SOURCE

Integrin β 2 (2Q822) is a mouse monoclonal antibody raised against leukocytes of a patient suffering from LGL-type leukemia of human origin.

PRODUCT

Each vial contains 100 μ g IgG₁ in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin. Also available azide-free for biological studies, sc-71399 L, 100 μ g/0.1 ml.

Integrin β 2 (2Q822) is available conjugated either phycoerythrin (sc-71399 PE, 100 tests in 2 ml) or fluorescein (sc-71399 FITC, 100 tests in 2 ml), for IF, IHC(P) and FCM.

APPLICATIONS

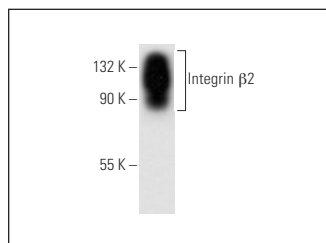
Integrin β 2 (2Q822) is recommended for detection of an epitope involving residues 534-546 in cysteine-rich repeat 3 of Integrin β 2 of human origin by Western Blotting (non-reducing) (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 μ g per 1×10^6 cells).

Suitable for use as control antibody for Integrin β 2 siRNA (h): sc-29374, Integrin β 2 shRNA Plasmid (h): sc-29374-SH and Integrin β 2 shRNA (h) Lentiviral Particles: sc-29374-V.

Molecular Weight of Integrin β 2: 95 kDa.

Positive Controls: HL-60 whole cell lysate: sc-2209.

DATA



Integrin β 2 (2Q822): sc-71399. Western blot analysis of Integrin β 2 expression in HL-60 whole cell lysate.

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 β 2 (CTB104): sc-8420** for Integrin β 2 antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor[®] 488, 546, 594, 647, 680 and 790.