Integrin β2 (MEM-48): sc-51652



The Power to Ouestion

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 integrinmediated 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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- Naessens, J., et al. 1997. Nomenclature and characterization of leukocyte differentiation antigens in ruminants. Immunol. Today 18: 365-638.
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- 8. Drbal, K., et al. 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.
- Dusinsky, R., et al. 2001. Monoclonal antibodies specific for bovine CD18. Folia Biol. 47: 108-110.

CHROMOSOMAL LOCATION

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

SOURCE

Integrin β 2 (MEM-48) is a mouse monoclonal antibody raised against leukocytes of a patient suffering from LGL-type leukemia of human origin.

PRODUCT

Each vial contains 100 μg lgG_1 in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available azide-free for biological studies, sc-51652 L, 100 $\mu g/0.1$ ml.

APPLICATIONS

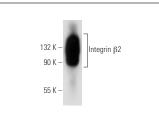
Integrin β 2 (MEM-48) is recommended for detection of an epitope involving residues 534-546 in cysteine-rich repeat 3 of Integrin β 2 of human origin by Western Blotting (non-reducing) (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 μ g per 1 x 10⁶ cells).

Suitable for use as control antibody for Integrin $\beta2$ siRNA (h): sc-29374, Integrin $\beta2$ shRNA Plasmid (h): sc-29374-SH and Integrin $\beta2$ shRNA (h) Lentiviral Particles: sc-29374-V.

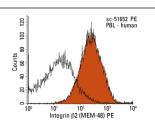
Molecular Weight of Integrin β2: 95 kDa.

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

DATA







 $\begin{array}{ll} \text{Integrin } \beta \text{2 (MEM-48): sc-51652. Western blot analysis} & \text{Integrin } \\ \text{of Integrin } \beta \text{2 expression in HL-60 whole cell lysate.} & \text{of hum.} \\ \end{array}$

Integrin β 2 (MEM-48): sc-51652. Indirect FCM analysis of human peripheral blood leukocytes stained with Integrin β 2 (MEM-48), followed by PE-conjugated goat anti-mouse $\lg G_1$: sc-3764. Black line histogram represents the isotype control, normal mouse $\lg G_1$: sc-3877.

SELECT PRODUCT CITATIONS

Liu, H., et al. 2018. PRDM4 mediates YAP-induced cell invasion by activating leukocyte-specific Integrin β2 expression. EMBO Rep. 19: e45180.

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.