Integrin αM (M1/70.15.11.5.HL): sc-81723



The Power to Question

BACKGROUND

Integrin αM (also designated complement component receptor 3 α chain, CD11b (p170), macrophage antigen α polypeptide, cell surface glycoprotein Mac-1 α subunit, CR3 α chain, MAC1A, MO1A and ITGAM) is a cell adhesion molecule that acts as a receptor for cell surface ligands such as intracellular adhesion molecules (ICAMs) or soluble ligands. Integrins are heterodimeric proteins that contain an α chain and β chain. Integrin αM combines with Integrin $\beta 2$ to form a leukocyte-specific integrin referred to as macrophage receptor 1 (Mac-1) or inactivated-C3b (iC3b) receptor 3 (CR3). Integrin $\alpha M/\beta 2$ is important in the adherence of neutrophils and monocytes to stimulated endothelium and in the phagocytosis of complement coated particles.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ITGAM (human) mapping to 16p11.2; Itgam (mouse) mapping to 7 F4.

SOURCE

Integrin αM (M1/70.15.11.5.HL) is a rat monoclonal antibody raised against T lymphocyte-enriched C57BL/10 mouse spleen cells.

PRODUCT

Each vial contains 200 μg lgG_{2b} in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Integrin αM (M1/70.15.11.5.HL) is available conjugated to either phycoerythrin (sc-81723 PE) or fluorescein (sc-81723 FITC), 200 μ g/ml, for IF, IHC(P) and FCM.

APPLICATIONS

Integrin αM (M1/70.15.11.5.HL) is recommended for detection of Integrin αM of mouse, rat and human origin by 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 αM siRNA (h): sc-37261, Integrin αM siRNA (m): sc-35693, Integrin αM shRNA Plasmid (h): sc-37261-SH, Integrin αM shRNA Plasmid (m): sc-35693-SH, Integrin αM shRNA (h) Lentiviral Particles: sc-37261-V and Integrin αM shRNA (m) Lentiviral Particles: sc-35693-V.

Molecular Weight of Integrin αM: 170 kDa.

Positive Controls: RAW 264.7 whole cell lysate: sc-2211.

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 α M (2LPM19c): sc-20050 for Integrin α M antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor® 488, 546, 594, 647, 680 and 790.

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