Integrin αM (M1/70): sc-23937



The Power to Question

BACKGROUND

Integrin αM (also designated complement component receptor-3 α , CD11b (p170), macrophage antigen α polypeptide, cell surface glycoprotein Mac-1 α subunit, 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 the 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 also in the phagocytosis of complement coated particles.

CHROMOSOMAL LOCATION

Genetic locus: ITGAM (human) mapping to 16p11.2; Itgam (mouse) mapping to 7 F3.

SOURCE

Integrin αM (M1/70) 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) is available conjugated to either phycoerythrin (sc-23937 PE) or fluorescein (sc-23937 FITC), 200 $\mu g/ml$, for WB (RGB), IF, IHC(P) and FCM.

APPLICATIONS

Integrin αM (M1/70) 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 α M siRNA (h): sc-37261, Integrin α M siRNA (m): sc-35693, Integrin α M shRNA Plasmid (h): sc-37261-SH, Integrin α M shRNA Plasmid (m): sc-35693-SH, Integrin α M shRNA (h) Lentiviral Particles: sc-37261-V and Integrin α M 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.

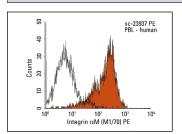
PROTOCOLS

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

RESEARCH USE

For research use only, not for use in diagnostic procedures.

DATA



Integrin α M (M1/70) PE: sc-23937 PE. FCM analysis of human peripheral blood leukocytes. Black line histogram represents the isotype control, normal rat lgG_{2b} PE: sc-2873.

SELECT PRODUCT CITATIONS

- Ishihara, K., et al. 2004. The point mutation of tyrosine 759 of the IL-6 family cytokine receptor gp130 synergizes with HTLV-1 pX in promoting rheumatoid arthritis-like arthritis. Int. Immunol. 16: 455-465.
- Zhou, J., et al. 2011. Real time monitoring of biomaterial-mediated inflammatory responses via macrophage-targeting NIR nanoprobes. Biomaterials 32: 9383-9390.
- Xie, Z., et al. 2017. Immune cell-mediated biodegradable theranostic nanoparticles for melanoma targeting and drug delivery. Small 13: 10.1002/smll.201603121.
- Yu, Y., et al. 2018. Extracellular vesicles from human saliva promote hemostasis by delivering coagulant tissue factor to activated platelets.
 J. Thromb. Haemost. 16: 1153-1163.
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- 8. El Mahmoudi, N., et al. 2022. Microglial dynamics modulate vestibular compensation in a rodent model of vestibulopathy and condition the expression of plasticity mechanisms in the deafferented vestibular nuclei. Cells 11: 2693.



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.