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 β2 combines with Integrin β2 to form a leukocyte-specific integrin referred to as macrophage receptor 1 (Mac-1) or inactivated-C3b (iC3b) receptor 3 (CR3). Integrin αM/β2 is important in the adherence of neutrophils and monocytes to stimulated endothelium and in the phagocytosis of complement coated particles.

REFERENCES


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 IgG2b 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 µg/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 µg per 100-500 µg of total protein [1 ml of cell lysate]), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10^6 cells).


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 website at www.scbt.com for detailed protocols and support products.

CONJUGATES

See Integrin αM (2LP PM 19c): sc-20650 for Integrin αM antibody conjugates, including AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647.