# Integrin αM (2B2.38): sc-71444



The Power to Question

## **BACKGROUND**

Integrin  $\alpha M$  (also designated complement component receptor-3  $\alpha$ , CD11b (p170), macrophage antigen  $\alpha$  polypeptide, cell surface glycoprotein Mac-1  $\alpha$  subunit, MAC1A, M01A 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  $\alpha$  chain and  $\beta$  chain. Integrin  $\alpha M$  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.

# **REFERENCES**

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## **STORAGE**

Store at  $4^{\circ}$  C, \*\*D0 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.

#### **CHROMOSOMAL LOCATION**

Genetic locus: ITGAM (human) mapping to 16p11.2.

#### **SOURCE**

Integrin  $\alpha M$  (2B2.38) is a mouse monoclonal antibody raised against the I domain of Integrin  $\alpha M$  of human origin.

#### **PRODUCT**

Each vial contains 200  $\mu g \ lgG_1$  kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Integrin  $\alpha M$  (2B2.38) is available conjugated to fluorescein (sc-71444 FITC), 200  $\mu g/ml$ , for WB (RGB), IF, IHC(P) and FCM.

## **APPLICATIONS**

Integrin  $\alpha M$  (2B2.38) is recommended for detection of Integrin  $\alpha M$  of human origin by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1  $\mu g$  per 1 x 10<sup>6</sup> cells).

Suitable for use as control antibody for Integrin  $\alpha M$  siRNA (h): sc-37261, Integrin  $\alpha M$  shRNA Plasmid (h): sc-37261-SH and Integrin  $\alpha M$  shRNA (h) Lentiviral Particles: sc-37261-V.

Molecular Weight of Integrin αM: 170 kDa.

#### **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Immunofluorescence: use m-lgG $\kappa$  BP-FITC: sc-516140 or m-lgG $\kappa$  BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

## **SELECT PRODUCT CITATIONS**

 Saed, G.M., et al. 2018. Novel expression of CD11b in epithelial ovarian cancer: potential therapeutic target. Gynecol. Oncol. 148: 567-575.

## **RESEARCH USE**

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



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

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