

anti-mouse CD11b APC-conjugated

APC- conjugated monoclonal antibody M1/70.15 to mouse CD11b

Cat-No: **22159116**

500 µl

Clone: M1/70.15

Specificity: The anti-mouse CD11b (Mac-1; Ly 40) monoclonal antibody is specific for the 170 kDa a subunit of Mac-1 which mediates adhesion to ICAM-1 (CD54) and C3bi. Mac-1 is expressed on granulocytes, macrophages, natural killer cells and B-1 cells in the peritoneal and pleural cavities. Mac-1 is up-regulated on neutrophils after activation. This particular clone blocks cell adherence and C3bi binding but does not block cell mediated lysis.

Species Reactivity: Human, Non-Human Primates, Mouse, Rabbit

Isotype subclass: Rat IgG2b

Form: The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The reagent is adjusted for direct use. No reconstitution is necessary.

Physical state: Liquid

Buffer/Additives/Preservative: PBS containing 1 % BSA and 0.09 % sodium azide (pH 7.2).

Expiration date: The reagent is stable until the expiry date stated on the vial label.

Storage conditions: Store at 4 °C. Avoid prolonged exposure to light.

Application: Flow Cytometry

Background: CD11b (integrin alphaM subunit) is a 165-170 kDa type I transmembrane glycoprotein that non-covalently associates with integrin beta2 subunit (CD18); expression of the CD11b chain on the cell surface requires the presence of the CD18 antigen. CD11b/CD18 integrin (Mac-1, CR3) is highly expressed on NK cells, neutrophils, monocytes and less on macrophages. CD11b/CD18 integrin is implicated in various adhesive interactions of monocytes, macrophages and granulocytes, facilitating their diapedesis, as well as it mediates the uptake of complement coated particles, serving as a receptor for the iC3b fragment of the third complement component.

References:

- 1.) Springer T, Galfrè G, Secher DS, Milstein C. Eur J Immunol. 1978 Aug;8(8):539-51.
- 2.) Ault KA, Springer TA: J Immunol. 1981 Jan;126(1):359-64.
- 3.) Sanchez-Madrid F, Simon P, Thompson S, Springer TA: J Exp Med. 1983 Aug 1;158(2):586-602.
- 4.) Zhang Y, McCormick LL, Desai SR, Wu C, Gilliam AC: J Immunol. 2002 Mar 15;168(6):3088-98.

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

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