



PB-681-T025

## Monoclonal Antibody to CD11b Pacific Blue™ conjugated (25 tests)

<b>Clone:</b>	ICRF44
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	The mouse monoclonal antibody ICRF44 recognizes CD11b (Mac-1 $\alpha$ ), a 165-170 kDa type 1 transmembrane protein mainly expressed on monocytes, granulocytes and NK-cells. HLDA IV, WS Code M047
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	Rheumatoid synovial cells and human monocytes.
<b>Species Reactivity:</b>	Human, Non-Human Primates
<b>Preparation:</b>	The purified antibody is conjugated with Pacific Blue™ under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
<b>Storage Buffer:</b>	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
<b>Storage / Stability:</b>	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
<b>Usage:</b>	The reagent is designed for Flow Cytometry analysis of human blood cells using 4 $\mu$ l reagent / 100 $\mu$ l of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (0.1 ml) is sufficient for 25 tests.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	CD11b (integrin $\alpha$ M subunit) is a 165-170 kDa type I transmembrane glycoprotein that non-covalently associates with integrin $\beta$ 2 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.

**For laboratory research only, not for drug, diagnostic or other use.**

**Antibodies****References:**

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- \*Hua J, Sakamoto K, Nagaoka I: Inhibitory actions of glucosamine, a therapeutic agent for osteoarthritis, on the functions of neutrophils. *J Leukoc Biol*. 2002 Apr;71(4):632-40.
- \*Machacek C, Supper V, Leksa V, Mitulovic G, Spittler A, Drbal K, Suchanek M, Ohradanova-Repic A, Stockinger H: Folate Receptor &#946; Regulates Integrin CD11b/CD18 Adhesion of a Macrophage Subset to Collagen. *J Immunol*. 2016 Sep 15;197(6):2229-38.

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