



PC-529-T025

## Monoclonal Antibody to CD11c PerCP (25 tests)

<b>Clone:</b>	BU15
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	The antibody BU15 reacts with CD11c (alphaX, p150), a 150 kDa integrin expressed mainly on dendritic cells and tissue macrophages. HLDA III; WS Code M 256 HLDA V; WS Code AS S143 HLDA VI; WS Code AS Ref.6
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	Dendritic cells of synovial fluid
<b>Species Reactivity:</b>	Human, Monkey
<b>Preparation:</b>	The purified antibody is conjugated with Peridinin-chlorophyll-protein complex (PerCP) 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 10 µl reagent / 100 µl 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>	CD11c (p150, alphaX integrin subunit) forms complex with CD18 (beta2 integrin subunit) and is expressed mainly on tissue macrophages and dendritic cells. CD11c binds to complement fragment iC3b, fibrinogen, VCAM-1 and ICAM-2 or e.g. CD90. Like other beta2 integrins, CD11c/CD18 plays roles in cell migration and phagocytosis. Moreover, interaction of CD11c/CD18 with plasminogen regulates plasmin activities, and interaction with heparin counteracts binding of iC3b.

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

**Antibodies****References:**

- \*Sadhu C, Ting HJ, Lipsky B, Hensley K, Garcia-Martinez LF, Simon SI, Staunton DE: CD11c/CD18: novel ligands and a role in delayed-type hypersensitivity. *J Leukoc Biol.* 2007 Jun;81(6):1395-403.
- \*Bullard DC, Hu X, Adams JE, Schoeb TR, Barnum SR: p150/95 (CD11c/CD18) expression is required for the development of experimental autoimmune encephalomyelitis. *Am J Pathol.* 2007 Jun;170(6):2001-8.
- \*Vorup-Jensen T, Chi L, Gjelstrup LC, Jensen UB, Jewett CA, Xie C, Shimaoka M, Linhardt RJ, Springer TA: Binding between the integrin alphaXbeta2 (CD11c/CD18) and heparin. *J Biol Chem.* 2007 Oct 19;282(42):30869-77.
- \*Gang J, Choi J, Lee JH, Nham SU: Identification of critical residues for plasminogen binding by the alphaXI-domain of the beta2 integrin, alphaXbeta2. *Mol Cells.* 2007 Oct 31;24(2):240-6.
- \*Hogg N, Takacs L, Palmer DG, Selvendran Y, Allen C: The p150,95 molecule is a marker of human mononuclear phagocytes: comparison with expression of class II molecules. *Eur J Immunol.* 1986 Mar;16(3):240-8.
- \*Leukocyte Typing III., McMichael A. J. et al (Eds.), Oxford University Press (1987).
- \*Trowald-Wigh G, Johannisson A, Hansson L: Canine neutrophil adhesion proteins and Fc-receptors in healthy dogs and dogs with adhesion protein deficiency, as studied by flow cytometry. *Vet Immunol Immunopathol.* 1993 Oct;38(3-4):297-310.
- \*Leukocyte Typing V., Schlossman S. et al. (Eds.), Oxford University Press (1995).
- \*Van der Vieren M, Le Trong H, Wood CL, Moore PF, St John T, Staunton DE, Gallatin WM: A novel leukointegrin, alpha d beta 2, binds preferentially to ICAM-3. *Immunity.* 1995 Dec;3(6):683-90.
- \*Leukocyte Typing VI., Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997).
- \*Rezzonico R, Imbert V, Chicheportiche R, Dayer JM: Ligation of CD11b and CD11c beta(2) integrins by antibodies or soluble CD23 induces macrophage inflammatory protein 1alpha (MIP-1alpha) and MIP-1beta production in primary human monocytes through a pathway dependent on nuclear factor-kappaB. *Blood.* 2001 May 15;97(10):2932-40.
- \*Myou S, Zhu X, Boetticher E, Qin Y, Myo S, Meliton A, Lambertino A, Munoz NM, Hamann KJ, Leff AR: Regulation of adhesion of AML14.3D10 cells by surface clustering of beta2-integrin caused by ERK-independent activation of cPLA2. *Immunology.* 2002 Sep;107(1):77-85.
- \*Sadhu C, Hendrickson L, Dick KO, Potter TG, Staunton DE: Novel Tools for Functional Analysis of CD11c: Activation-Specific, Activation-Independent, and Activating Antibodies. *J Immunoassay Immunochem.* 2008;29(1):42-57.
- \*Angel CE, Lala A, Chen CJ, Edgar SG, Ostrovsky LL, Dunbar PR: CD14+ antigen-presenting cells in human dermis are less mature than their CD1a+ counterparts. *Int Immunol.* 2007 Nov;19(11):1271-9.
- \*And many other.

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