



Antibodies

11-529-C025

Monoclonal Antibody to CD11c Purified Antibody (0.025 mg)

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| Clone: | BU15 |
| Isotype: | Mouse IgG1 |
| Specificity: | 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 |
| Regulatory Status: | RUO |
| Immunogen: | Dendritic cells of synovial fluid |
| Species Reactivity: | Human, Monkey |
| Application: | Flow Cytometry Immunoprecipitation Immunohistochemistry (frozen sections) |
| Purity: | > 95% (by SDS-PAGE) |
| Purification: | Purified by protein-A affinity chromatography |
| Concentration: | 1 mg/ml |
| Storage Buffer: | Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4 |
| Storage / Stability: | Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label. |
| Expiration: | See vial label |
| Lot Number: | See vial label |
| Background: | 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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