



1F-648-T025

Monoclonal Antibody to CD36 Fluorescein (FITC) conjugated (25 tests)

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| Clone: | CB38 (NL07) |
| Isotype: | Mouse IgM |
| Specificity: | The mouse monoclonal antibody CB38 (NL07) recognizes CD36 (GPIIb), a 85-113 kDa integral membrane glycoprotein expressed on platelets, macrophages, endothelial cells, early erythroid cells and megakaryocytes. HLDA IV.; WS Code P106 |
| Regulatory Status: | RUO |
| Immunogen: | living human myeloid cells |
| Species Reactivity: | Human |
| Preparation: | The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary. |
| Storage Buffer: | The reagent is provided in stabilizing Tris buffered saline (TBS) solution containing 15 mM sodium azide. |
| Storage / Stability: | 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. |
| Usage: | The reagent is designed for Flow Cytometry analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.1 ml) is sufficient for 25 tests. |
| Expiration: | See vial label |
| Lot Number: | See vial label |
| Background: | CD36 (fatty acid translocase, FAT) is an 85-113 kDa ditopic glycosylated protein that belongs to the class B family of scavenger receptors. CD36 is expressed by most resting marginal zone B cells but not by follicular and B1 B cells, and it is rapidly induced on Follicular B cells in vitro upon TLR and CD40 stimulation. CD36 does not affect the development of B cells, but modulates both primary and secondary antibody response. Similarly to glucose transporter GLUT4, CD36 is translocated from intracellular pools to the plasma membrane following cell stimulation by insulin. In mouse, CD36 is responsible for gustatory perception of long-chain fatty acids. |

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

**Antibodies****References:**

- *Leukocyte Typing IV., Knapp W. et al. (Eds.), Oxford University Press (1989).
- *Alessio M, Ghigo D, Garbarino G, Geuna M, Malavasi F: Analysis of the human CD36 leucocyte differentiation antigen by means of the monoclonal antibody NL07. *Cell Immunol.* 1991 Oct 15;137(2):487-500.
- *Alessio M, Roggero S, Bussolino F, Saitta M, Malavasi F: Characterization of the murine monoclonal antibody NL07 specific for the human thrombospondin receptor (CD36 molecule). *Curr Stud Hematol Blood Transfus.* 1991;(58):182-6.
- *Alessio M, Greco NJ, Primo L, Ghigo D, Bosia A, Tandon NN, Ockenhouse CF, Jamieson GA, Malavasi F: Platelet activation and inhibition of malarial cytoadherence by the anti-CD36 IgM monoclonal antibody NL07. *Blood.* 1993 Dec 15;82(12):3637-47.
- *Fadok VA, Warner ML, Bratton DL, Henson PM: CD36 is required for phagocytosis of apoptotic cells by human macrophages that use either a phosphatidylserine receptor or the vitronectin receptor (alpha v beta 3). *J Immunol.* 1998 Dec 1;161(11):6250-7.
- *Matasić R, Dietz AB, Vuk-Pavlović S: Dexamethasone inhibits dendritic cell maturation by redirecting differentiation of a subset of cells. *J Leukoc Biol.* 1999 Dec;66(6):909-14.
- *Hoffmann PR, deCathelineau AM, Ogden CA, Leverrier Y, Bratton DL, Daleke DL, Ridley AJ, Fadok VA, Henson PM: Phosphatidylserine (PS) induces PS receptor-mediated macropinocytosis and promotes clearance of apoptotic cells. *J Cell Biol.* 2001 Nov 12;155(4):649-59.
- *Kapinsky M, Torzewski M, Büchler C, Duong CQ, Rothe G, Schmitz G: Enzymatically degraded LDL preferentially binds to CD14(high) CD16(+) monocytes and induces foam cell formation mediated only in part by the class B scavenger-receptor CD36. *Arterioscler Thromb Vasc Biol.* 2001 Jun;21(6):1004-10.
- *McKenna RW, Washington LT, Aquino DB, Picker LJ, Kroft SH: Immunophenotypic analysis of hematogones (B-lymphocyte precursors) in 662 consecutive bone marrow specimens by 4-color flow cytometry. *Blood.* 2001 Oct 15;98(8):2498-507.
- *Moniuszko M, Kowal K, Rusak M, Pietruczuk M, Dabrowska M, Bodzenta-Lukaszyk A: Monocyte CD163 and CD36 expression in human whole blood and isolated mononuclear cell samples: influence of different anticoagulants. *Clin Vaccine Immunol.* 2006 Jun;13(6):704-7.
- *And many other.

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