



PO-663-T100

Monoclonal Antibody to CD19 Pacific Orange™ conjugated (100 tests)

Clone: 4G7

Isotype: Mouse IqG1

Specificity: The mouse monoclonal antibody 4G7 recognizes CD19 (B4), a 95 kDa type I

transmembrane glycoprotein of immunoglobulin superfamily, expressed on B

lymphocytes and follicular dendritic cells; it is lost on plasma cells.

WS Code: 2 B43

Regulatory Status: RUO

Human CCL (chronic lymphocytic leukemia) cells Immunogen:

Species Reactivity: Human

The purified antibody is conjugated with Pacific Orange™ under optimum conditions. The conjugate is purified by size-exclusion chromatography and Preparation:

adjusted for direct use. No reconstitution is necessary.

Storage Buffer: The reagent is provided in stabilizing phosphate buffered saline (PBS) solution

containing 15mM 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° cells in a suspension.

The content of a vial (0.4 ml) is sufficient for 100 tests.

Expiration: See vial label

See vial label Lot Number:

Background: CD19 is a transmembrane glycoprotein of Ig superfamily expressed by B cells from

the time of heavy chain rearrangement until plasma cell differentiation. It forms a tetrameric complex with CD21 (complement receptor type 2), CD81 (TAPA-1) and Leu13. Together with BCR (B cell antigen receptor), this complex signals to decrease B cell treshold for activation by the antigen. Besides being signal-amplifying coreceptor for BCR, CD19 can also signal independently of BCR coligation and it turns out to be a central regulatory component upon which multiple signaling pathways converge. Mutation of the CD19 gene results in hypogammaglobulinemia, whereas CD19 overexpression causes B cell

hyperactivity.



PRODUCT DATA SHEET

References:

*Leukocyte Typing II., Reinherz E.L. et al. (Eds.), Springer-Verlag (1985).

*Muench MO, Roncarolo MG, Namikawa R: Phenotypic and functional evidence for the expression of CD4 by hematopoietic stem cells isolated from human fetal liver. Blood. 1997 Feb 15;89(4):1364-75.

*Stockmeyer B, Dechant M, van Egmond M, Tutt AL, Sundarapandiyan K, Graziano RF, Repp R, Kalden JR, Gramatzki M, Glennie MJ, van de Winkel JG, Valerius T: Triggering Fc alpha-receptor I (CD89) recruits neutrophils as effector cells for CD20-directed antibody therapy. J Immunol. 2000 Nov 15;165(10):5954-61.

*Dubois B, Massacrier C, Caux C: Selective attraction of naive and memory B cells by dendritic cells. J Leukoc Biol. 2001 Oct;70(4):633-41.

*Basu S, Lynne CM, Ruiz P, Aballa TC, Ferrell SM, Brackett NL: Cytofluorographic identification of activated T-cell subpopulations in the semen of men with spinal cord injuries. J Androl. 2002 Jul-Aug;23(4):551-6.

*Köller M, Zwölfer B, Steiner G, Smolen JS, Scheinecker C: Phenotypic and functional deficiencies of monocyte-derived dendritic cells in systemic lupus erythematosus (SLE) patients. Int Immunol. 2004 Nov;16(11):1595-604.

*Treusch M, Vonthein R, Baur M, Günaydin I, Koch S, Stübiger N, Eckstein AK, Peter HH, Ness T, Zierhut M, Kötter I: Influence of human recombinant interferon-alpha2a (rhIFN-alpha2a) on altered lymphocyte subpopulations and monocytes in Behcet's disease. Rheumatology (Oxford). 2004 Oct;43(10):1275-82. *Porcellini S, Vallanti G, Nozza S, Poli G, Lazzarin A, Tambussi G, Siccardi AG, Grassi F: Improved thymopoietic potential in aviremic HIV infected individuals treated with HAART by intermittent IL-2 administration. AIDS. 2003 Jul 25;17(11):1621-30.

*Andersen P, Pedersen MW, Woetmann A, Villingshøj M, Stockhausen MT, Odum N, Poulsen HS: EGFR induces expression of IRF-1 via STAT1 and STAT3 activation leading to growth arrest of human cancer cells. Int J Cancer. 2008 Jan 15;122(2):342-9.

*Martino V, Tonelli R, Montemurro L, Franzoni M, Marino F, Fazzina R, Pession A: Down-regulation of MLL-AF9, MLL and MYC expression is not obligatory for monocyte-macrophage maturation in AML-M5 cell lines carrying t(9;11)(p22;q23). Oncol Rep. 2006 Jan;15(1):207-11.

*And many other.

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