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Datasheet for ABIN509573

anti-CD19 antibody

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Overview

Quantity:	0.1 mg
Target:	CD19
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD19 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Immunogen:	Human CCL (chronic lymphocytic leukemia) cells
Clone:	4G7
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody 4G7 recognizes an extracellular epitope of human CD19.
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	CD19
Alternative Name:	CD19 (CD19 Products)

Target Details

Background: CD19 Molecule, 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 threshold 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. B4, Leu-12, CVID3

Gene ID: 930

UniProt: [P15391](#)

Pathways: [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#)

Application Details

Application Notes: Flow cytometry: Recommended dilution: 1 µg/mL.

Restrictions: For Research Use only

Handling

Concentration: 1 mg/mL

Buffer: Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: **Do not freeze.**

Storage: 4 °C

Storage Comment: Store at 2-8°C. Do not freeze.

Publications

Product cited in: Andersen, Pedersen, Woetmann, Villingshøj, Stockhausen, Odum, Poulsen: "EGFR induces expression of IRF-1 via STAT1 and STAT3 activation leading to growth arrest of human cancer

cells." in: **International journal of cancer. Journal international du cancer**, Vol. 122, Issue 2, pp. 342-9, (2007) ([PubMed](#)).

Martino, Tonelli, Montemurro, Franzoni, Marino, Fazzina, Pession: "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)." in: **Oncology reports**, Vol. 15, Issue 1, pp. 207-11, (2005) ([PubMed](#)).

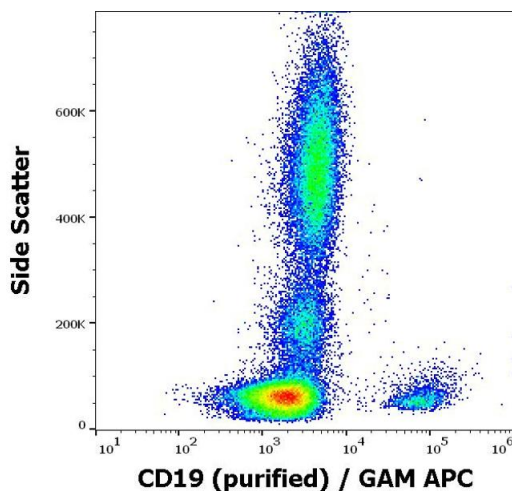
Köller, Zwölfer, Steiner, Smolen, Scheinecker: "Phenotypic and functional deficiencies of monocyte-derived dendritic cells in systemic lupus erythematosus (SLE) patients." in: **International immunology**, Vol. 16, Issue 11, pp. 1595-604, (2004) ([PubMed](#)).

Porcellini, Vallanti, Nozza, Poli, Lazzarin, Tambussi, Siccardi, Grassi: "Improved thymopoietic potential in aviremic HIV infected individuals treated with HAART by intermittent IL-2 administration." in: **AIDS**, Vol. 17, Issue 11, pp. 1621-30, (2003) ([PubMed](#)).

Basu, Lynne, Ruiz, Aballa, Ferrell, Brackett: "Cytofluorographic identification of activated T-cell subpopulations in the semen of men with spinal cord injuries." in: **Journal of andrology**, Vol. 23, Issue 4, pp. 551-6, (2002) ([PubMed](#)).

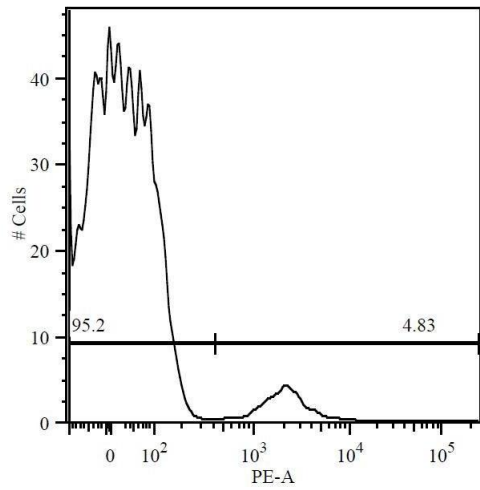
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Images



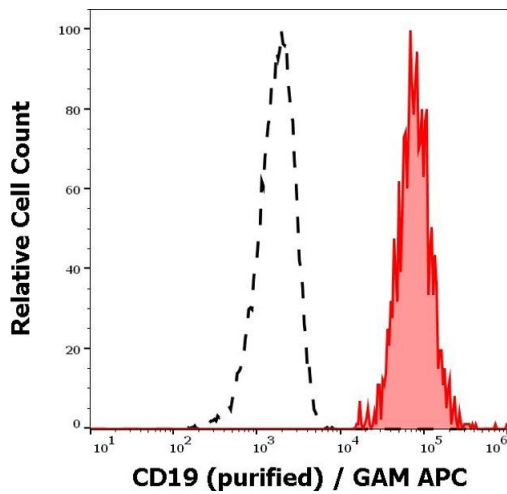
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral blood stained using anti-human CD19 (4G7) purified antibody (concentration in sample 3 µg/mL) GAM APC.



Flow Cytometry

Image 2. Surface staining of human peripheral blood leukocytes with anti-human CD19 (4G7) purified.



Flow Cytometry

Image 3. Separation of human CD19 positive lymphocytes (red-filled) from CD19 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD19 (4G7) purified antibody (concentration in sample 3 µg/mL) GAM APC.