Datasheet for ABIN638442

anti-CD19 antibody (PE)

3 Images | 8 Publications

Go to Product page

Overview

Quantity:	100 tests
Target:	CD19
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD19 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

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 antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

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 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.,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: The reagent is designed for analysis of human blood cells using 20 µL reagent / 100 µL of whole blood or 10^6 cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

Handling

Reconstitution:	No reconstitution is necessary.
Buffer:	Stabilizing 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.** Avoid prolonged exposure to light.

Handling

Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. 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).

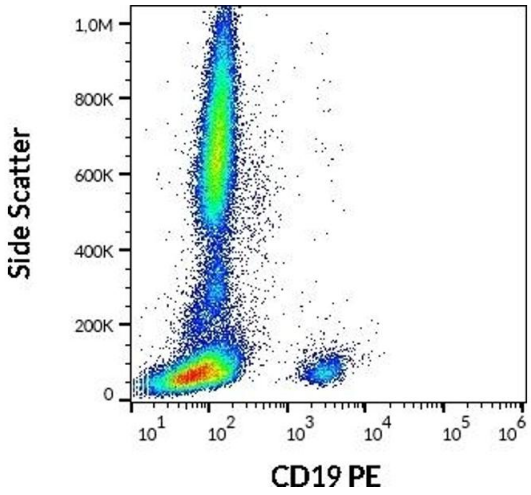
Martino, Tonelli, Montemurro, Franzoni, Marino, Fazzina, Pession: "Down-regulation of MLL-AF9, MLL and MYC expression is not obligatory for monocyte-macrophage maturation in AML-M5 cell lines carrying t(9;11)(p22;q23)." in: **Oncology reports**, Vol. 15, Issue 1, pp. 207-11, (2005) (PubMed).

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).

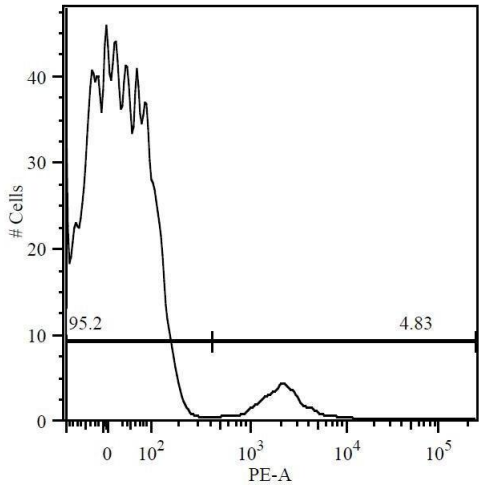
Basu, Lynne, Ruiz, Aballa, Ferrell, Brackett: "Cytofluorographic identification of activated T-cell subpopulations in the semen of men with spinal cord injuries." in: **Journal of andrology**, Vol. 23, Issue 4, pp. 551-6, (2002) (PubMed).

There are more publications referencing this product on: Product page



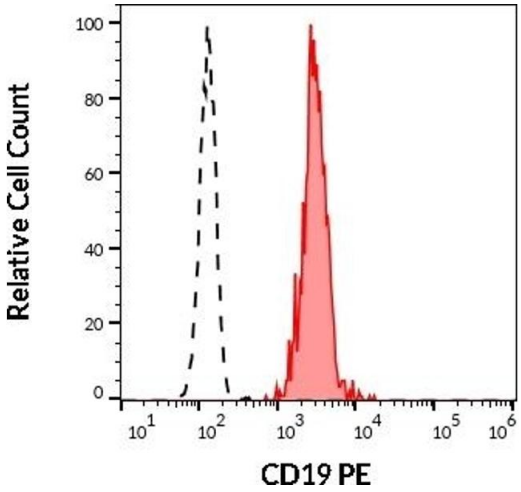
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD19 (4G7) PE antibody (20 µL reagent / 100 µL of peripheral whole blood).



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 neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD19 (4G7) PE antibody (20 µL reagent / 100 µL of peripheral whole blood).

