

Datasheet for ABIN94013

anti-CD19 antibody

3 Images

1 Publication



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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), Immunoprecipitation (IP)

Product Details

Immunogen:	Daudi human Burkitt lymphoma cell line
Clone:	LT19
Isotype:	IgG1
Specificity:	The antibody LT19 reacts with an extracellular epitope of CD19 (B4), a 95 kDa type I transmembrane glycoprotein (immunoglobulin superfamily) expressed on B lymphocytes and follicular dendritic cells, it is lost on plasma cells.
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](#))

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: 5 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

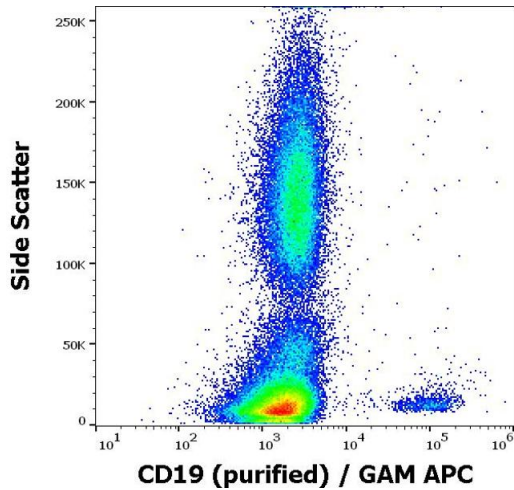
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: **Do not freeze.**

Storage: 4 °C

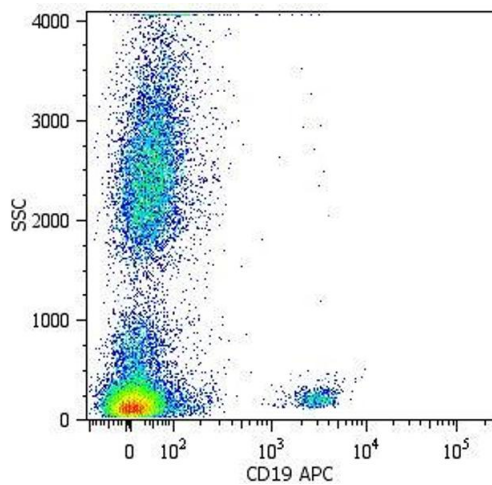
Storage Comment: Store at 2-8°C. Do not freeze.

Product cited in: Kayserova, Vcelakova, Stechova, Dudkova, Hromadkova, Sumnik, Kolouskova, Spisek, Sediva: "Decreased dendritic cell numbers but increased TLR9-mediated interferon-alpha production in first degree relatives of type 1 diabetes patients." in: **Clinical immunology (Orlando, Fla.)**, Vol. 153, Issue 1, pp. 49-55, (2014) ([PubMed](#)).



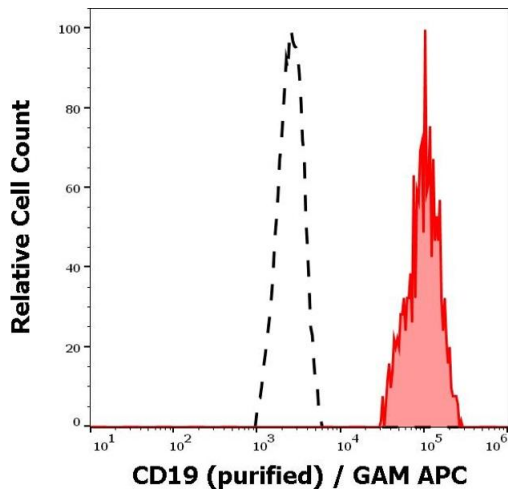
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD19 (LT19) purified antibody (concentration in sample 0,33 µg/mL, GAM APC).



Flow Cytometry

Image 2. Surface staining of human peripheral blood cells with anti-human CD19 (LT19) APC.



Flow Cytometry

Image 3. Separation of human CD19 positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of peripheral whole blood stained using anti-human CD19 (LT19) purified antibody (concentration in sample 0,33 $\mu\text{g}/\text{mL}$, GAM APC).