

Product datasheet for **SM1529PS**

CD19 Mouse Monoclonal Antibody [Clone ID: LT19]

Product data:

Product Type:	Primary Antibodies
Clone Name:	LT19
Applications:	FC, IHC, IP
Recommended Dilution:	Immunoprecipitation. Immunohistochemistry on Frozen Sections. Flow Cytometry: 5 µg/ml.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Daudi human Burkitt lymphoma cell line.
Specificity:	Clone LT19 reacts with 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.
Formulation:	PBS, pH 7.4 State: Purified State: Liquid purified IgG fraction (> 95% pure by SDS-PAGE) Preservative: 15 mM Sodium Azide
Concentration:	lot specific
Purification:	Ion Exchange Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD19 molecule
Database Link:	Entrez Gene 930 Human P15391



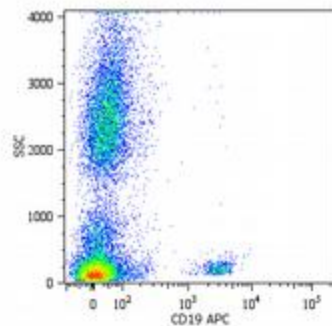
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Background:

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 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.

Synonyms:

Leu-12, B-cell marker

Product images:

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