

Product datasheet for **SM1529APC**

CD19 Mouse Monoclonal Antibody [Clone ID: LT19]

Product data:

Product Type:	Primary Antibodies
Clone Name:	LT19
Applications:	FC
Recommended Dilution:	Flow Cytometry: Use 10 µl of neat antibody to label 10e6 cells or cells or 100 µl whole blood.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	<p>This antibody recognizes the CD19 cell surface antigen. It labels all B lymphocytes in peripheral blood and spleen but is negative on granulocytes, monocytes, platelets, T lymphocytes and erythrocytes.</p> <p>This antibody is useful for enumerating normal B lymphocytes and typing B cell malignancies by Flow cytometry and Immunofluorescence.</p> <p>The antibody reacts with most B cell malignancies including chronic leukaemia and most lymphomas, but not multiple myeloma.</p>
Formulation:	<p>PBS, pH 7.4, containing 1% BSA as stabilizer and 0.09% Sodium Azide as preservative.</p> <p>Label: APC</p> <p>State: Lyophilized purified IgG fraction.</p> <p>Label: Allophycocyanin</p>
Reconstitution Method:	Restore with 1 ml distilled water.
Conjugation:	APC
Storage:	<p>Prior to and following reconstitution store the antibody undiluted at 2-8°C.</p> <p>DO NOT FREEZE!</p>
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 member of the immunoglobulin superfamily and has two Ig like domains. The CD19 molecule is expressed on 100% of the peripheral B cells as defined by expression of kappa or lamda light chains. It is expressed on approximately 10% of normal human peripheral blood cells and approximately 60% of splenic lymphocytes. It is not expressed on granulocytes, monocytes or T cells as defined by CD3 expression. CD19 defines a pan B antigen which is expressed from the earliest stages of B progenitor development, but is lost on terminal differentiation to plasma cells. It may also be present on some early myeloid progenitors, particularly those of the monoblastic type. The CD19 antigen is expressed on approximately 12% of peripheral blood lymphocytes. It appears to be expressed on myeloid leukemia cells, particularly those of monocytic lineage. Leukemia phenotype studies have demonstrated that the earliest and broadest B cell restricted antigen is the CD19 antigen.

Synonyms:

Leu-12, B-cell marker