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## ARG62760
## anti-CD19 antibody [LT19] (FITC)

Package: 100 tests
Store at: 4°C

## Summary

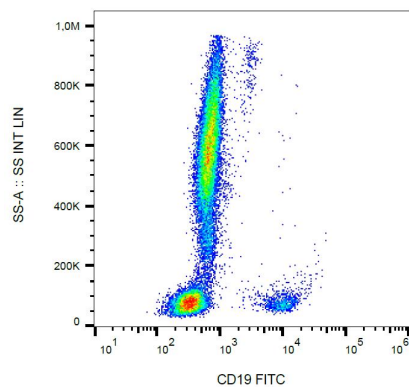| | |
|---|---|
| Product Description | FITC-conjugated Mouse Monoclonal antibody [LT19] recognizes CD19 |
| Tested Reactivity | Hu |
| Tested Application | FACS |
| Specificity | The clone LT19 reacts with CD19 (B4), a 95 kDa type I transmembrane glycoprotein (immunoglobulin superfamily) expressed on B lymphocytes and follicular dendritic cells; it is lost on plasma cells. |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone | LT19 |
| Isotype | IgG1 |
| Target Name | CD19 |
| Species | Human |
| Immunogen | Daudi human Burkitt lymphoma cell line |
| Conjugation | FITC |
| Alternate Names | Differentiation antigen CD19; T-cell surface antigen Leu-12; B-lymphocyte antigen CD19; B-lymphocyte surface antigen B4; B4; CD antigen CD19; CVID3 |

## Application Instructions

| Application table | Application | Dilution |
|---|---|---|
| | FACS | 20 µl / 10^6 cells |

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| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |

## Properties

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| Form | Liquid |
| Purification Note | The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary. |
| Buffer | PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA |
| Preservative | 15 mM Sodium azide |
| Stabilizer | 0.2% (w/v) high-grade protease free BSA |
| Storage instruction | Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

# Bioinformation

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|---|---|
| Database links | GeneID: 930 Human |
| | Swiss-port # P15391 Human |
| Gene Symbol | CD19 |
| Gene Full Name | CD19 molecule |
| Background | CD19: Lymphocytes proliferate and differentiate in response to various concentrations of different antigens. The ability of the B cell to respond in a specific, yet sensitive manner to the various antigens is achieved with the use of low-affinity antigen receptors. This gene encodes a cell surface molecule which assembles with the antigen receptor of B lymphocytes in order to decrease the threshold for antigen receptor-dependent stimulation. [provided by RefSeq, Jul 2008] |
| Function | CD19 functions as coreceptor for the B-cell antigen receptor complex (BCR) on B-lymphocytes. Decreases the threshold for activation of downstream signaling pathways and for triggering B-cell responses to antigens (PubMed:2463100, PubMed:1373518, PubMed:16672701). Activates signaling pathways that lead to the activation of phosphatidylinositol 3-kinase and the mobilization of intracellular Ca(2+) stores (PubMed:9382888, PubMed:9317126, PubMed:12387743, PubMed:16672701). Is not required for early steps during B cell differentiation in the blood marrow (PubMed:9317126). Required for normal differentiation of B-1 cells. Required for normal B cell differentiation and proliferation in response to antigen challenges (PubMed:2463100, PubMed:1373518). Required for normal levels of serum immunoglobulins, and for production of high-affinity antibodies in response to antigen challenge (PubMed:9317126, PubMed:12387743, PubMed:16672701). [UniProt] |
| Highlight | Related products: CD19 antibodies;  CD19 ELISA Kits;  CD19 Duos / Panels;  Anti-Mouse IgG secondary antibodies; Related news: Tumor-Infiltrating Lymphocytes (TILs) |
| Research Area | Developmental Biology antibody; Immune System antibody; Lymphocyte Marker antibody; B cell Marker antibody; Pro-B Cell Marker antibody; Pre-B Cell Marker antibody; Immature B Cell Marker antibody; Follicular dendritic cells antibody |
| Calculated Mw | 61 kDa |
| PTM | Phosphorylated on serine and threonine upon DNA damage, probably by ATM or ATR. Phosphorylated on tyrosine following B-cell activation. Phosphorylated on tyrosine residues by LYN. |

# Images



ARG62760 anti-CD19 antibody [LT19] (FITC) FACS image

Flow Cytometry: Human peripheral blood cells stained with ARG62760 anti-CD19 antibody [LT19] (FITC).