Mouse Anti-CD19
Monoclonal Antibody

CLX29AP  CLX29PE
CLX29B  CLX29PCP
CLX29F  CLX29APC

Clone: LT19
Isotype: Mouse IgG1

Specificity:
The antibody 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. HLDA 10

Immunogen: Daudi human Burkitt lymphoma cell line.

Species Reactivity: Human.

Application: Flow Cytometry and Immunoprecipitation.

Conjugate Preparation:
The purified antibody is conjugated with Biotin-LC-NHS, Fluorescein isothiocyanate (FITC), R-Phycoerythrin (PE), Peridinin-chlorophyll-protein complex (PerCP) or cross-linked Allophycocyanin (APC) under optimum conditions. The conjugates are purified by size-exclusion chromatography and adjusted for direct use (FITC, PE, APC, PerCP). No reconstitution is necessary.

Presentation:
Purified: 0.1 mg (1 mg/mL) purified IgG buffered in PBS with 15 mM sodium azide, approx. pH 7.4. (Purified by protein-A affinity chromatography; purity > 95% by SDS-PAGE).
Biotin: 0.1 mg (1 mg/mL) of Biotin conjugated IgG buffered in tris buffered saline (TBS) with 15 mM sodium azide, approx. pH 8.0.
FITC: 2 mL of FITC conjugated IgG buffered in in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide. Sufficient for 100 tests.
PE: 2 mL of PE conjugated IgG buffered in in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide. Sufficient for 100 tests.
PerCP: 1 mL of APC conjugated IgG buffered in in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide. Sufficient for 100 tests.
APC: 1 mL of APC conjugated IgG buffered in in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide. Sufficient for 100 tests.

Storage/Stability:
Store in the dark at 2-8°C. Do not freeze all formats. Avoid prolonged exposure to light of conjugates. Do not use after expiration date stamped on vial label.

Continued Overleaf…..
Usage:
Recommended dilutions for Flow Cytometry analysis of human blood cells:
Purified: 5 μg/ml
Biotin: 1:200 dilution
FITC: 20 μl reagent / 100 μl of whole blood or 10^6 cells in a suspension.
PE: 20 μl reagent / 100 μl of whole blood or 10^6 cells in a suspension.
PerCP: 10 μl reagent / 100 μl of whole blood or 10^6 cells in a suspension.
APC: 10 μl reagent / 100 μl of whole blood or 10^6 cells in a suspension.

*Optimal working concentrations should be determined by the investigator.

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), these 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.

References:

Laboratory Reagent For Research Use Only