

**TECHNICAL DATA SHEET**

# Biotin Anti-Human CD19 (SJ25C1)

Catalog Number: 30-0198

## PRODUCT INFORMATION

**Contents:** Biotin Anti-Human CD19 (SJ25C1)

**Isotype:** Mouse IgG1, kappa

**Concentration:** 0.5 mg/mL

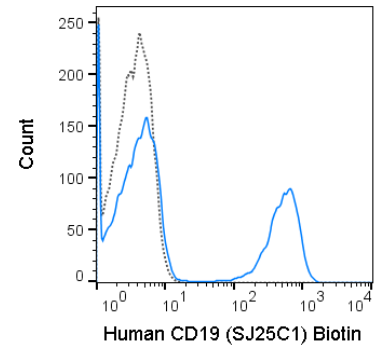
**Clone:** SJ25C1

**Reactivity:** Human

**Use By:** 12 months from date of receipt

**Storage Conditions:** 2-8°C

**Formulation:** 10 mM NaH<sub>2</sub>PO<sub>4</sub>, 150 mM NaCl, 0.09% NaN<sub>3</sub>, pH 7.2



Human peripheral blood lymphocytes were stained with 0.5 ug Biotin Anti-Human CD19 (30-0198) (solid line) or 0.5 ug Biotin Mouse IgG1 isotype control (dashed line), followed by Streptavidin PE.

## DESCRIPTION

The SJ25C1 antibody reacts with human CD19, a 95 kDa glycoprotein which acts as a co-receptor, along with CD21 (CR2), CD81 (TAPA-1) and CD225 (Leu13), in support of the functional B cell receptor (BCR). This complex provides antigen-specific recognition and subsequent activation of B cells to proliferate and differentiate into antibody-secreting cells (plasma cells) or memory B cells, which are crucial for secondary antigen encounter. Upon activation and tyrosine phosphorylation, the CD19 molecule can provide an anchor for cytoplasmic signaling proteins such as GRB2, SOS or PLCG2. CD19 is a lineage-differentiation marker, as its expression is detectable at the earliest B cell stages, through development, and is finally lost upon transition to mature plasma cells. The SJ25C1 antibody is widely used as a phenotypic marker for CD19 expression on B cells, as well as on dendritic cell subsets.

## PREPARATION & STORAGE

This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted biotin removed from the preparation. It is recommended to store the product undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

## APPLICATION NOTES

This antibody preparation has been quality-tested for flow cytometry using an appropriate cell type (as indicated). Please refer to the figure legend for the optimal concentration used to stain the tissue shown. We recommend titrating the antibody under your specific conditions to determine the optimal concentration of antibody needed in your experimental system.

## REFERENCES

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Tonbo Biosciences tests all antibodies by flow cytometry. Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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