

# Human CD19 Antibody

Purified *in vivo* GOLD™ Functional Grade  
Monoclonal Antibody

## Product Information

**Product No.:** C2854  
**Clone:** SJ25-C1  
**RRID:** AB\_2829610  
**Isotype:** Mouse IgG1  $\kappa$   
**Storage:** Sterile 2-8°C

## Product Description

### Specificity:

Clone SJ25-C1 recognizes an epitope on human CD19.

### Antigen Distribution:

CD19 is expressed in the majority of Pro-B cells to mature B cells (during development) and follicular dendritic cells. Plasma cells do not express CD19.

### Background:

CD19 is a 95 kD transmembrane glycoprotein and member of the Ig superfamily. The antigen serves as an adaptor protein; drawing cytoplasmic signaling proteins to the membrane. It works via the CD19/CD21 complex to decrease the threshold for B cell receptor signaling pathways. Because of its presence on all B cells, CD19 is a biomarker for B lymphocyte development, lymphoma diagnosis and can be utilized as a target for the immunotherapy of lymphoproliferative disorders. Emerging studies indicate that CD19 plays an active role in fueling the growth of these cancers, most notably by stabilizing the concentrations of the MYC oncoprotein, making CD19 an attractive therapeutic target with respect to its downstream signaling.

### Known Reactivity Species:

Human

### Format:

Purified *in vivo* GOLD™ Functional Grade

### Immunogen:

NALM1 + NALM16 cells

## Formulation

This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added. Due to inherent biochemical properties of antibodies, certain products may be prone to precipitation over time. Precipitation may be removed by aseptic centrifugation and/or filtration.

## Purity

≥95% monomer by analytical SEC

## Endotoxin

< 1.0 EU/mg as determined by the LAL method

## Storage and Stability

Functional grade preclinical antibodies may be stored sterile as received at 2-8°C for up to one month. For longer term storage, aseptically aliquot in working volumes without diluting and store at ≤ -70°C.

**Avoid Repeated Freeze Thaw Cycles.**

### **Product Preparation**

Functional grade preclinical antibodies are manufactured in an animal free facility using *in vitro* cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.

### **Country of Origin**

USA