

# Product Datasheet

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## Anti-Mouse CD19

### Purified Monoclonal Antibody

#### Product Information

**Product No.:** C2088  
**Clone:** 1D3  
**RRID:** AB\_2829168  
**Isotype:** Rat IgG2a  
**Storage:** Sterile 2-8°C

#### Product Description

##### Specificity:

Clone 1D3 recognizes an epitope on mouse 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:

Mouse

##### Format:

Purified

##### Immunogen:

Fusion of NS-1 Myeloma cells with spleen cells

##### Formulation

This purified antibody is formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.4, 1% BSA and 0.09% sodium azide as a preservative.

##### Storage and Stability

This purified antibody is stable when stored at 2-8°C. **Do not freeze.**

##### Applications

##### Applications and Recommended Usage (Quality Tested By Leinco):

**FC** The suggested concentration for this 1D3 antibody for staining cells in flow cytometry is  $\leq 1 \mu\text{g}$  per  $10^6$  cells in a volume of 100  $\mu\text{l}$ . Titration of the reagent is recommended for optimal performance for each application.

**WB** The suggested concentration for this 1D3 antibody for use in western blotting is 1-10  $\mu\text{g/ml}$ .

##### Other Applications Reported in Literature:

PhenoCycler-Fusion (CODEX)®

B

IP

Country of Origin

USA

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

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