

Product Datasheet

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Anti-Mouse CD19 Purified *in vivo* GOLD™ Functional Grade Monoclonal Antibody

Product Information

Product No.: C2117
Clone: 1D3
RRID: AB_2737456
Isotype: Rat IgG2a κ
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

in vivo GOLD™, Purified *in vivo* Functional Grade

Immunogen

K562 cells expressing the extracellular domain of mouse CD19

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, >95% by SDS Page

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.

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

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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 μl . 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

Depletion

IP

Country of Origin

USA

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