

# In vivo Grade Recombinant Anti-mouse CD19 Monoclonal Antibody (Clone: 1D3), Rat IgG2a Kappa

Catalog No.: YR0381

## Basic Information

### Molecular Weight

150kDa

### Endotoxin

<1EU/mg (<0.001EU/μg) Determined by LAL gel clotting assay

### Sterility

0.2 μm filtration

### Aggregation

<5% Determined by SECP

### Purity

>95% Determined by SDS-PAGE

## Background

The 1D3 antibody binds to the mouse CD19 protein, a transmembrane protein expressed in all B lineage cells including mouse plasma cells. CD19 plays two major roles in mouse B cells: it acts as an adaptor protein to recruit cytoplasmic signaling proteins to the membrane, and works within the CD19/CD21 complex to decrease the threshold for B cell receptor signaling pathways. CD19 is a biomarker for B lymphocyte development, lymphoma diagnosis and can be utilized as a target for leukemia immunotherapies.

## Reported Applications

ELISA, flow cytometry, neutralization, functional assays such as bioanalytical PK and ADA assays, and those assays for studying biological pathways affected by the mouse CD19 protein.

## Immunogen Information

### Clone

1D3

### Isotype

Rat IgG2a

### Immunogen

### Recommended Isotype Control(s)

### Recommended Dilution Buffer

1×PBS

## Contact

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## Product Information

### Production

Purified from cell culture supernatant in an animal-free facility

### Purification

Protein A/G

### Storage

Store at 2 - 8°C. 2 - 8°C for up to 4 weeks and -80°C for long term storage (Avoid repeated freezing and thawing)