

For Research Use Only

# Anti-Mouse CD19 (1D3) Rat IgG2a Recombinant Antibody

Catalog Number: 65661-1-TR



## Basic Information

Catalog Number:

65661-1-TR

Concentration:

100ug, 1000  $\mu$ g/ml

Source:

Rat

Isotype:

IgG2a

GenBank Accession Number:

BC156767

GeneID (NCBI):

12478

Full Name:

CD19 antigen

Purification Method:

Protein A purification

CloneNo.:

1D3

Recommended Dilutions:

FC: 0.5  $\mu$ g per  $10^6$  cells in 100  $\mu$ l suspension

## Applications

Tested Applications:

FC

Species Specificity:

mouse

Positive Controls:

FC : mouse splenocytes,

## Background Information

CD19 is a 95 kDa type I transmembrane glycoprotein belonging to the immunoglobulin superfamily (PMID: 2472450). It is expressed by B cells and follicular dendritic cells. CD19 is up-regulated at the step of B-lineage commitment during the differentiation of the hematopoietic stem cell, it remains on during subsequent stages of differentiation until finally down-regulated during terminal differentiation into plasma cells (PMID: 8528044). CD19 is involved in B cell development, activation and differentiation. It is the dominant component for the signaling complex on B cells that includes CD21 (CR2), CD81 (TAPA-1) and CD225 and acts as a critical co-receptor for BCR signal transduction (PMID: 23210908).

## Storage

Storage:

Store at 2-8°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

For technical support and original validation data for this product please contact:

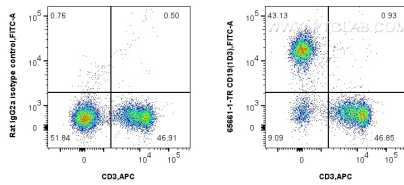
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

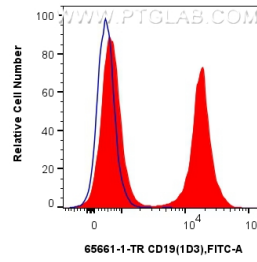
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## Selected Validation Data



1x10<sup>6</sup> mouse splenocytes were surface stained with 0.5 ug Anti-Mouse CD19 (1D3) Rat IgG2a RecAb (65661-1-TR, Clone:1D3) or Rat IgG2a Isotype Control (2A3) (65209-1-Ig, Clone: 2A3), and FITC anti-Rat IgG2a antibody. Cells were then stained with APC Anti-Mouse CD3 (17A2) (APC-65077, Clone: 17A2). Cells were not fixed.



1x10<sup>6</sup> mouse splenocytes were surface stained with 0.5 ug Anti-Mouse CD19 (1D3) Rat IgG2a RecAb (65661-1-TR, Clone: 1D3) (red) or Rat IgG2a Isotype Control (2A3) (65209-1-Ig, Clone: 2A3) (blue), and FITC anti-Rat IgG2a antibody. Cells were not fixed.