

For Research Use Only

# CoraLite® Plus 405 Anti-Mouse CD19 (1D3) Rat IgG2a Recombinant Antibody

Catalog Number: CL405-65661



## Basic Information

Catalog Number:

CL405-65661

Size:

100ug, 500 ug/ml

Source:

Rat

Isotype:

IgG2a

GenBank Accession Number:

BC156767

GeneID (NCBI):

12478

UNIPROT ID:

P25918

Full Name:

CD19 antigen

Purification Method:

Protein G purification

CloneNo.:

1D3

Recommended Dilutions:

FC: 0.25 ug per 10<sup>6</sup> cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

399 nm / 422 nm

## 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. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

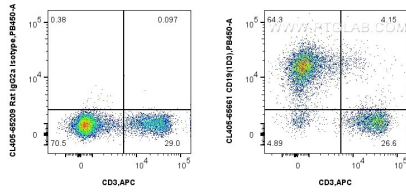
For technical support and original validation data for this product please contact:

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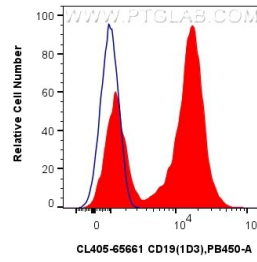
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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## Selected Validation Data



1x10<sup>6</sup> mouse splenocytes were surface stained with APC Anti-Mouse CD3, and 0.25 ug CoraLite® Plus 405 Anti-Mouse CD19 (1D3) Rat IgG2a RecAb (CL405-65661, Clone: 1D3) or CoraLite® Plus 405 Rat IgG2a Isotype Control (2A3) (CL405-65209, Clone: 2A3). Cells were not fixed.



1x10<sup>6</sup> mouse splenocytes were surface stained with 0.25 ug CoraLite® Plus 405 Anti-Mouse CD19 (1D3) Rat IgG2a RecAb (CL405-65661, Clone: 1D3) (red) or CoraLite® Plus 405 Rat IgG2a Isotype Control (2A3) (CL405-65209, Clone: 2A3) (blue). Cells were not fixed.