

For Research Use Only

# FcZero-rAb® CoraLite® Plus 405 Anti-Human CD19 (4G7) Rabbit Recombinant Antibody

Catalog Number: CL405-FcA65562



## Basic Information

Catalog Number:

CL405-FcA65562

Concentration:

100tests, 5 ul/test

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC006338

GeneID (NCBI):

930

ENSEMBL Gene ID:

ENSG00000177455

UNIPROT ID:

P15391

Full Name:

CD19 molecule

Calculated MW:

556 aa, 61 kDa

Purification Method:

Protein A purification

CloneNo.:

4G7

Recommended Dilutions:

FC: 5 ul 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:

human

Positive Controls:

FC : human PBMCs,

## 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 and 0.5% BSA, pH7.3

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

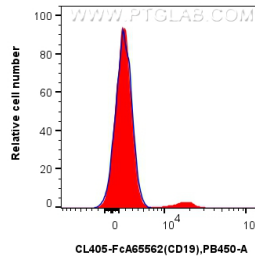
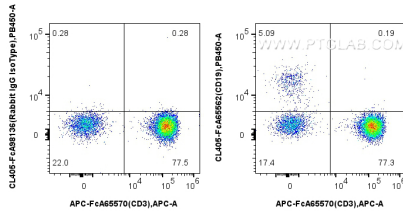
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## Selected Validation Data



$1 \times 10^6$  human PBMCs were surface stained with APC Anti-Human CD3 (UCHT1), and 5 ul CoraLite® Plus 405 Anti-Human CD19 (4G7) Rabbit IgG RecAb (CL405-FcA65562, Clone: 4G7) or Rabbit IgG Isotype Control RecAb (CL405-FcA98136, Clone: 240953C9). Cells were not fixed. Lymphocytes were gated.

$1 \times 10^6$  human PBMCs were surface stained with 5 ul CoraLite® Plus 405 Anti-Human CD19 (4G7) Rabbit IgG RecAb (CL405-FcA65562, Clone: 4G7) (red) or Rabbit IgG Isotype Control RecAb (CL405-FcA98136, Clone: 240953C9) (blue). Cells were not fixed. Lymphocytes were gated.