

# Atlantic Blue™ Anti-Human CD19 (4G7)

Catalog Number: **AB-65197**

## Basic Information

**Catalog Number:**

AB-65197

**Size:**

100tests, 5 µl/test

**Source:**

Mouse

**Isotype:**

IgG1, kappa

**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 G purification

**CloneNo.:**

4G7

**Excitation/Emission maxima wavelengths:**

404 nm / 458 nm

## Applications

**Tested Applications:**

FC

**Species Specificity:**

Human

## 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

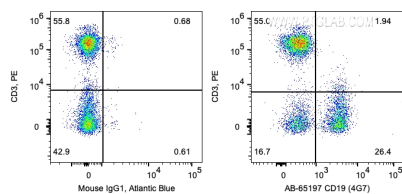
**Storage:**

Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

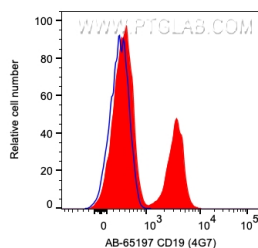
**Storage Buffer:**

PBS with 0.09% sodium azide and 0.5% BSA.

## Selected Validation Data



1X10<sup>6</sup> human PBMCs were surface co-stained with PE Anti-Human CD3 and 5 ul Atlantic Blue™ Anti-Human CD19 (AB-65197, Clone: 4G7) or Mouse IgG1 Isotype Control. Cells were not fixed. Lymphocytes were gated.



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