

For Research Use Only

# CoraLite® Plus 405 Anti-Human CD19 (4G7)



Catalog Number: **CL405-65197**

## Basic Information

<b>Catalog Number:</b> CL405-65197	<b>GenBank Accession Number:</b> BC006338	<b>Purification Method:</b> Affinity purification
<b>Size:</b> 100tests , 5 ul/test	<b>GeneID (NCBI):</b> 930	<b>CloneNo.:</b> 4G7
<b>Source:</b> Mouse	<b>Full Name:</b> CD19 molecule	<b>Excitation/Emission maxima wavelengths:</b> 399 nm / 422 nm
<b>Isotype:</b> IgG1, kappa	<b>Calculated MW:</b> 556 aa, 61 kDa	

## 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

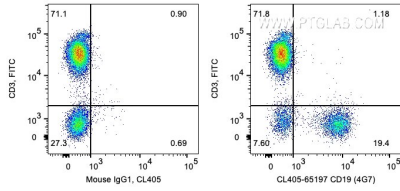
**Storage:**  
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.09% sodium azide and 0.5% BSA.

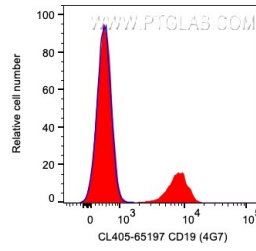
For technical support and original validation data for this product please contact:  
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## Selected Validation Data



1X10<sup>6</sup> human PBMCs were surface co-stained with FITC Anti-Human CD3 and 5 ul CoraLite® Plus 405 Anti-Human CD19 (CL405-65197, Clone: 4G7) or Mouse IgG1 Isotype Control. Cells were not fixed. Lymphocytes were gated.



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