

For Research Use Only

# FcZero-rAb® PE-Cyanine7 Anti-Human CD19 (4G7) Rabbit Recombinant Antibody

Catalog Number: PY7-FcA65562



## Basic Information

<b>Catalog Number:</b> PY7-FcA65562	<b>GenBank Accession Number:</b> BC006338	<b>Purification Method:</b> Protein A purification
<b>Concentration:</b> 100tests, 5 ul/test	<b>GeneID (NCBI):</b> 930	<b>CloneNo.:</b> 4G7
<b>Source:</b> Rabbit	<b>ENSEMBL Gene ID:</b> ENSG00000177455	<b>Recommended Dilutions:</b> FC: 5 ul per 10 <sup>6</sup> cells in a 100 µl suspension
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> P15391	<b>Excitation/Emission maxima wavelengths:</b> 496 nm, 565 nm / 778 nm
	<b>Full Name:</b> CD19 molecule	
	<b>Calculated MW:</b> 556 aa, 61 kDa	

## Applications

<b>Tested Applications:</b> FC	<b>Positive Controls:</b> FC : human PBMCs,
<b>Species Specificity:</b> 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, pH7.3

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

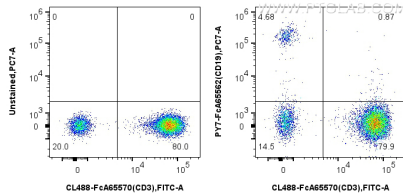
T: 4006900926

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

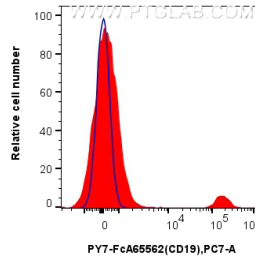
W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



1x10<sup>6</sup> human PBMCs were surface stained with CoraLite® Plus 488 Anti-Human CD3 (UCHT1), and 5 ul PE-Cyanine7 Anti-Human CD19 (4G7) Rabbit IgG RecAb (PY7-FcA65562, Clone: 4G7) or unstained. Cells were incubated with MonoZero™ Monocytes blocking Reagent (PF00020) prior to staining. Cells were not fixed. Lymphocytes were gated.



1x10<sup>6</sup> human PBMCs were surface stained with 5 ul PE-Cyanine7 Anti-Human CD19 (4G7) Rabbit IgG RecAb (PY7-FcA65562, Clone: 4G7) (red) or unstained (blue). Cells were incubated with MonoZero™ Monocytes blocking Reagent (PF00020) prior to staining. Cells were not fixed. Lymphocytes were gated.