

For Research Use Only

# PE-Cyanine7 Anti-Human CD19 (4G7) Mouse IgG2a Recombinant Antibody

Catalog Number: PY7-65562



## Basic Information

Catalog Number:

PY7-65562

Size:

100tests, 5 µl/test

Source:

Mouse

Isotype:

IgG2a

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

Excitation/Emission maxima  
wavelengths:

450-500 nm / 778 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.

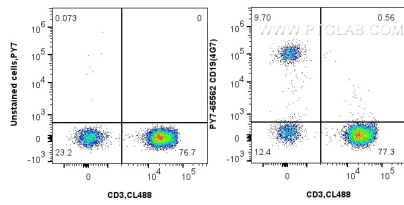
For technical support and original validation data for this product please contact:

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## Selected Validation Data



$1 \times 10^6$  human peripheral blood lymphocytes were surface stained with 5  $\mu$ l PE-Cyanine7 CD19 Recombinant Antibody (PY7-65562, Clone: 4G7) or unstained. Cells were co-stained with CoraLite® Plus 488 Anti-Human CD3 (UCHT1) (CL488-65151, Clone: UCHT1). Cells were not fixed.