

For Research Use Only

# Anti-Human CD19 (4G7) Mouse IgG2a Recombinant Antibody, PBS Only

Catalog Number: 65562-1-PBS



## Basic Information

Catalog Number:

65562-1-PBS

Size:

1mg, 2mg/ml

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

## 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 -80°C. Stable for one year after shipment.

Storage Buffer:

PBS Only

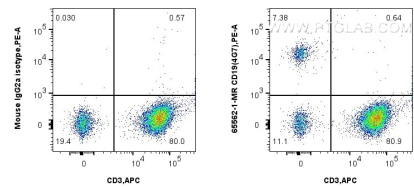
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

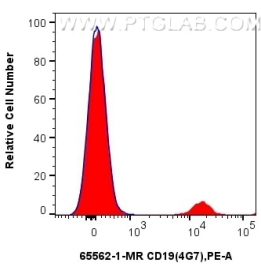
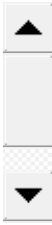
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Selected Validation Data



1x10<sup>6</sup> human PBMCs were surface stained with 0.25 ug Anti-Human CD19 (4G7) Mouse IgG2a Recombinant Antibody (65562-1-MR, Clone: 4G7) or Mouse IgG2a Isotype Control (C1.18.4) (65208-1-Ig, Clone: C1.18.4) and PE-conjugated Goat Anti-Mouse IgG. Cells were co-stained with APC Anti-Human CD3 (OKT3) Mouse IgG2a Recombinant Antibody (APC-65569, Clone: OKT3). Cells were not fixed. Lymphocytes were gated. This data was developed using the same antibody



1x10<sup>6</sup> human PBMCs were surface stained with 0.25 ug Anti-Human CD19 (4G7) Mouse IgG2a Recombinant Antibody (65562-1-MR, Clone: 4G7) (red) or Mouse IgG2a Isotype Control (C1.18.4) (65208-1-Ig, Clone: C1.18.4) (blue), and PE-conjugated Goat Anti-Mouse IgG. Cells were not fixed. Lymphocytes were gated. This data was developed using the same antibody clone with 65562-1-PBS in a different storage buffer formulation.