

For Research Use Only

# CD19 Polyclonal antibody

Catalog Number: 27914-1-AP



## Basic Information

### Catalog Number:

27914-1-AP

### Size:

150ul , Concentration: 450 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG27404

### GenBank Accession Number:

BC006338

### GeneID (NCBI):

930

### ENSEMBL Gene ID:

ENSG00000177455

### UNIPROT ID:

P15391

### Full Name:

CD19 molecule

### Calculated MW:

556 aa, 61 kDa

### Observed MW:

95-100 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:3000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IF/ICC, IP, ELISA

### Species Specificity:

human

### Positive Controls:

WB : Daudi cells, Raji cells, Ramos cells

IP : Raji cells,

IF/ICC : Raji cells,

## 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 -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

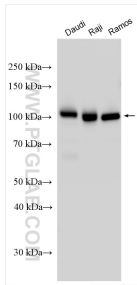
For technical support and original validation data for this product please contact:

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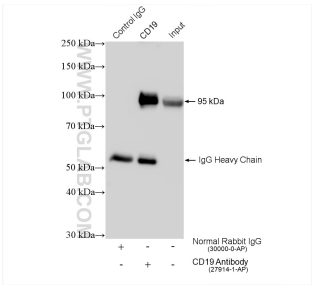
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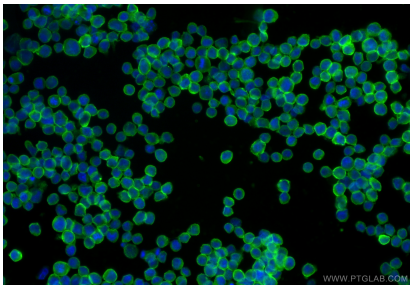
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 27914-1-AP (CD19 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



IP result of anti-CD19 (IP:27914-1-AP, 4ug; Detection:27914-1-AP 1:3000) with Raji cells lysate 1800 ug.



Immunofluorescent analysis of (4% PFA) fixed Raji cells using CD19 antibody (27914-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).