

For Research Use Only

# Anti-Human CD38 Rabbit Recombinant Antibody, PBS Only

Catalog Number: 98148-2-PBS



## Basic Information

|                           |              |                           |                 |                      |                        |
|---------------------------|--------------|---------------------------|-----------------|----------------------|------------------------|
| Catalog Number:           | 98148-2-PBS  | GenBank Accession Number: | BC007964        | Purification Method: | Protein A purification |
| Size:                     | 1mg, 3 mg/ml | GeneID (NCBI):            | 952             | CloneNo.:            | 241246D5               |
| Source:                   | Rabbit       | ENSEMBL Gene ID:          | ENSG00000004468 |                      |                        |
| Isotype:                  | IgG          | UNIPROT ID:               | P28907          |                      |                        |
| Immunogen Catalog Number: | EG0110       | Full Name:                | CD38 molecule   |                      |                        |
|                           |              | Calculated MW:            | 300 aa, 34 kDa  |                      |                        |

## Applications

Tested Applications:  
FC

Species Specificity:  
human, monkey, non-human primates

## Background Information

CD38, also known as ADP-ribosyl cyclase 1, is a type II transmembrane glycoprotein with a short N-terminal cytoplasmic tail, a single membrane-spanning domain, and a C-terminal extracellular region with four N-glycosylation sites (PMID: 2319135). The extracellular domain of CD38 has bifunctional enzyme activities that catalyze synthesis of cyclic ADP ribose from nicotinamide adenine dinucleotide (NAD) and hydrolysis of cyclic ADP ribose to adenosine diphosphoribose (PMID: 10636863). CD38 is expressed on a variety of hematopoietic and non-hematopoietic cells and is involved in diverse processes such as generation of calcium-mobilizing metabolites, cell activation, and chemotaxis (PMID: 25938500).

## Storage

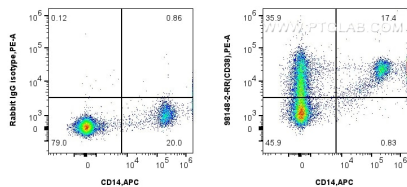
Storage:  
Store at -80°C.

Storage Buffer:  
PBS only, pH7.3

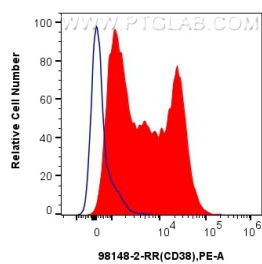
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

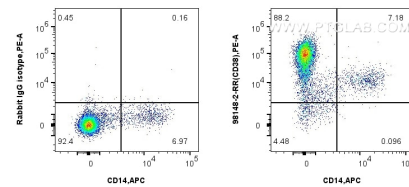
Selected Validation Data



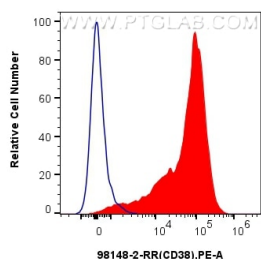
1x10<sup>6</sup> human PBMCs were surface stained with 0.25 ug Anti-Human CD38 Rabbit RecAb (98148-2-RR, Clone: 241246D5) or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were co-stained with APC Anti-Human CD14 (26IC) (APC-65246, Clone: 26IC). Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed. This data was developed using the same



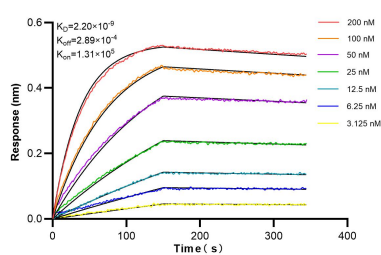
1x10<sup>6</sup> human PBMCs were surface stained with 0.25 ug Anti-Human CD38 Rabbit RecAb (98148-2-RR, Clone: 241246D5) (red) or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed. This data was developed using the same antibody clone with 98148-2-PBS in a different storage buffer formulation.



1x10<sup>6</sup> cynomolgus PBMCs cells were surface stained with 0.25 ug Anti-Human CD38 Rabbit RecAb (98148-2-RR, Clone: 241246D5) or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were then stained with APC Anti-Human CD14 Rabbit Recombinant Antibody (APC-98040, Clone: 230332D7). Cells were not fixed. This data was developed using the same antibody



1x10<sup>6</sup> cynomolgus PBMCs cells were surface stained with 0.25 ug Anti-Human CD38 Rabbit RecAb (98148-2-RR, Clone: 241246D5) (red) or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were not fixed. This data was developed using the same antibody clone with 98148-2-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 98148-2-RR against Human CD38 were performed. The affinity constant is 2.20 nM.