

For Research Use Only

Anti-Human CD38 Rabbit Recombinant Antibody

Catalog Number: 98148-2-RR



Basic Information

Catalog Number:

98148-2-RR

Size:

100ug, 1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG0110

GenBank Accession Number:

BC007964

GeneID (NCBI):

952

ENSEMBL Gene ID:

ENSG00000004468

UNIPROT ID:

P28907

Full Name:

CD38 molecule

Calculated MW:

300 aa, 34 kDa

Purification Method:

Protein A purification

CloneNo.:

241246D5

Recommended Dilutions:

FC: 0.25 µg per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

FC

Species Specificity:

human, cynomolgus monkey

Positive Controls:

FC : human PBMCs, cynomolgus PBMCs

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 2 - 8°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

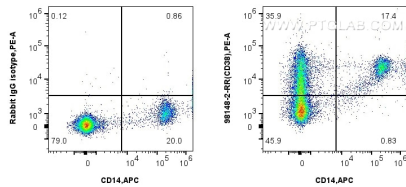
For technical support and original validation data for this product please contact:

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

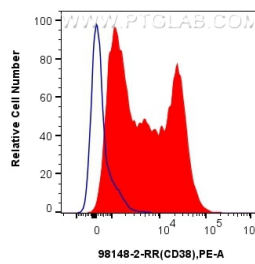
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

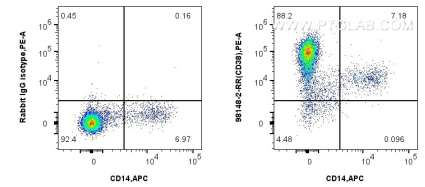
Selected Validation Data



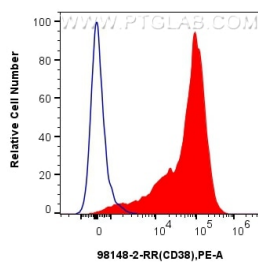
1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD38 Rabbit RecAb (98148-2-RR, Clone: 241246D5) or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were co-stained with APC Anti-Human CD14 (261C) (APC-65246, Clone: 261C). Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.



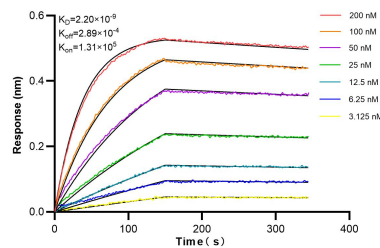
1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD38 Rabbit RecAb (98148-2-RR, Clone: 241246D5) (red) or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.



1x10⁶ 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.



1x10⁶ 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.



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