

# Anti-Human CD38 (HB7)

Catalog Number: 65107-1-Ig

## Basic Information

**Catalog Number:**

65107-1-Ig

**Size:**

100ug, 500 µg/ml

**Source:**

Mouse

**Isotype:**

IgG1, kappa

**GenBank Accession Number:**

BC007964

**GeneID (NCBI):**

952

**ENSEMBL Gene ID:**

ENSG00000004468

**Full Name:**

CD38 molecule

**Calculated MW:**

300 aa, 34 kDa

**Purification Method:**

Affinity purification

**CloneNo.:**

HB7

## Applications

**Tested Applications:**

FC

**Species Specificity:**

Human

## 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

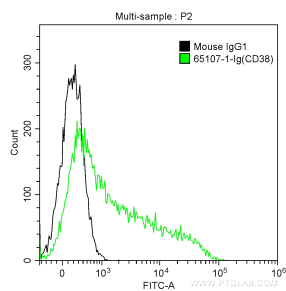
**Storage:**

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

**Storage Buffer:**

PBS with 0.1% sodium azide, pH 7.3.

## Selected Validation Data



1X10<sup>6</sup> human peripheral blood lymphocytes were surface stained with 0.5 ug Anti-Human CD38 (65107-1-Ig, Clone:HB7) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (green), or stained with 0.5 ug mouse IgG1 isotype control and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (black). Cells were not fixed.