

CD38 Monoclonal antibody

Catalog Number: 60006-1-Ig

Featured Product

8 Publications

Basic Information

Catalog Number:

60006-1-Ig

Size:

150ul, Concentration: 880 µg/ml by Bradford method using BSA as the standard;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG0487

GenBank Accession Number:

BC007964

GeneID (NCBI):

952

Full Name:

CD38 molecule

Calculated MW:

300 aa, 34 kDa

Observed MW:

45 kDa

Purification Method:

Protein A purification

CloneNo.:

3C6G4

Recommended Dilutions:

WB 1:500-1:2000

IF 1:10-1:100

Applications

Tested Applications:

FC, IF, WB, ELISA

Cited Applications:

IF, WB

Species Specificity:

human, mouse

Cited Species:

human, mouse

Positive Controls:

WB : Jurkat cells, Raji cells

IF : NIH/3T3 cells,

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).

Notable Publications

Author	Pubmed ID	Journal	Application
Teresa W-M Fan	36150727	J Immunol	
Yun Wang	32460411	Glia	WB
Huiwen Zheng	35594870	Cell Rep	IF

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

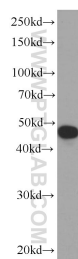
For technical support and original validation data for this product please contact:

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

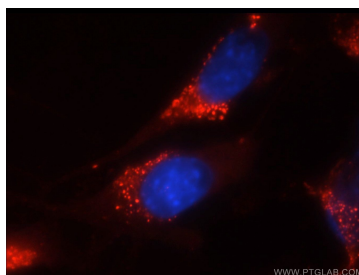
E: proteintech@ptglab.com
W: ptglab.com

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

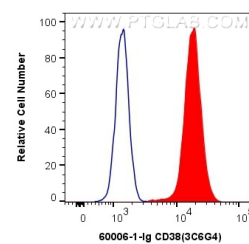
Selected Validation Data



Jurkat cells were subjected to SDS PAGE followed by western blot with 60006-1-Ig (CD38 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of NIH/3T3 cells using 60006-1-Ig (CD38 antibody) at dilution of 1:25 and Rhodamine-Goat anti-Mouse IgG.



1X10⁶ Daudi cells were intracellularly stained with 0.4 ug Anti-Human CD38 (60006-1-Ig, Clone:3C6G4) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG1 Isotype Control (MOPC-21) (65124-1-Ig, Clone: MOPC-21) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (blue). Cells were fixed with 4% PFA and