

For Research Use Only

# CD38 Monoclonal antibody, PBS Only



Catalog Number: 60006-1-PBS

Featured Product

## Basic Information

<b>Catalog Number:</b> 60006-1-PBS	<b>GenBank Accession Number:</b> BC007964	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1mg/ml	<b>GeneID (NCBI):</b> 952	<b>CloneNo.:</b> 3C6G4
<b>Source:</b> Mouse	<b>ENSEMBL Gene ID:</b> ENSG00000004468	
<b>Isotype:</b> IgG1	<b>UNIPROT ID:</b> P28907	
<b>Immunogen Catalog Number:</b> AG0487	<b>Full Name:</b> CD38 molecule	
	<b>Calculated MW:</b> 300 aa, 34 kDa	
	<b>Observed MW:</b> 45 kDa	

## Applications

### Tested Applications:

WB, IF, ELISA

### Species Specificity:

human, mouse

## 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

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

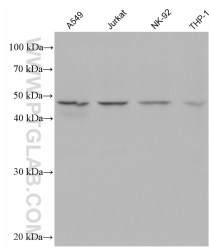
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

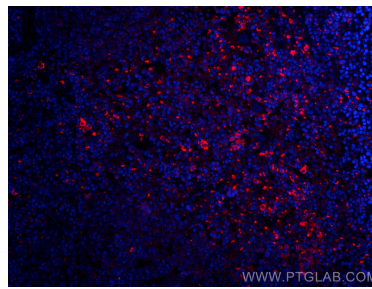
W: [ptgcn.com](http://ptgcn.com)

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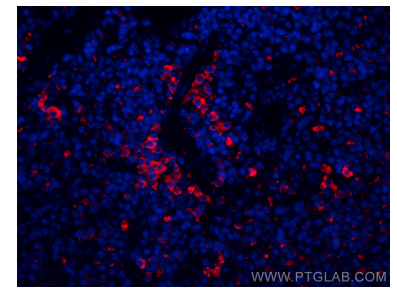
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 60006-1-Ig (CD38 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 60006-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse spleen tissue using CD38 antibody (60006-1-Ig, Clone: 3C6G4) at dilution of 1:400 and CoraLite®594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-3). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 60006-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse spleen tissue using CD38 antibody (60006-1-Ig, Clone: 3C6G4) at dilution of 1:400 and CoraLite®594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-3). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 60006-1-PBS in a different storage buffer formulation.