

For Research Use Only

# CD38 Polyclonal antibody, PBS Only

Catalog Number: 31891-1-PBS



## Basic Information

<b>Catalog Number:</b> 31891-1-PBS	<b>GenBank Accession Number:</b> BC007964	<b>Purification Method:</b> Antigen affinity Purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 952	
<b>Source:</b> Rabbit	<b>ENSEMBL Gene ID:</b> ENSG00000004468	
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> P28907	
	<b>Full Name:</b> CD38 molecule	
	<b>Calculated MW:</b> 300 aa, 34 kDa	
	<b>Observed MW:</b> 40 kDa	

## Applications

**Tested Applications:**  
WB, IHC, Indirect ELISA

**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

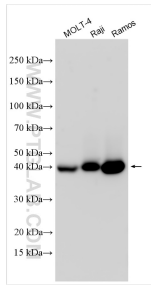
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

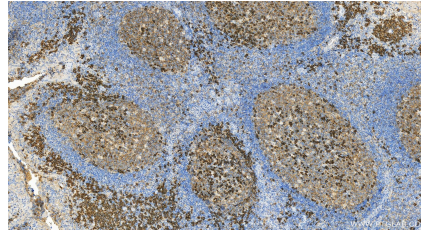
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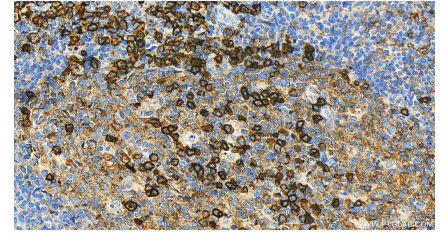
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 31891-1-AP (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 31891-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 31891-1-AP (CD38 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 31891-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 31891-1-AP (CD38 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 31891-1-PBS in a different storage buffer formulation.