

For Research Use Only

CD38 Polyclonal antibody

Catalog Number: 31891-1-AP



Basic Information

Catalog Number: 31891-1-AP	GenBank Accession Number: BC007964	Purification Method: Antigen affinity Purification
Size: 150ul , Concentration: 450 µg/ml by Nanodrop;	GeneID (NCBI): 952	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:200-1:800
Source: Rabbit	ENSEMBL Gene ID: ENSG00000004468	
Isotype: IgG	UNIPROT ID: P28907	
	Full Name: CD38 molecule	
	Calculated MW: 300 aa, 34 kDa	
	Observed MW: 40 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls: WB : MOLT-4 cells, Raji cells, Ramos cells
Species Specificity: human	IHC : human tonsillitis tissue,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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 -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

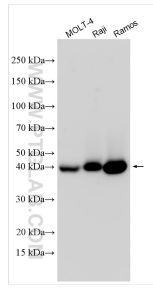
For technical support and original validation data for this product please contact:

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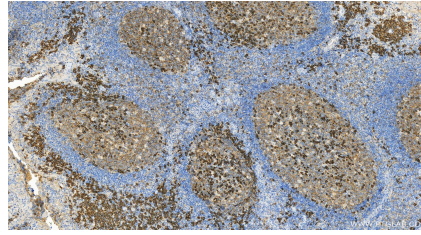
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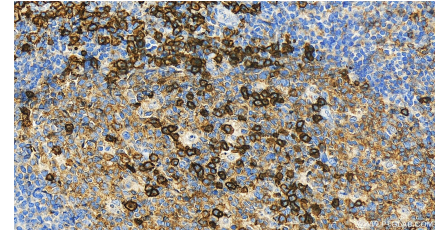
Selected Validation Data



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.



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).



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