

For Research Use Only

CD38 Polyclonal antibody

Catalog Number: 25284-1-AP **6 Publications**



Basic Information

Catalog Number: 25284-1-AP	GenBank Accession Number: BC007964	Purification Method: Antigen affinity purification
Size: 800 µg/ml	GeneID (NCBI): 952	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:50-1:500
Source: Rabbit	ENSEMBL Gene ID: ENSG00000004468	
Isotype: IgG	UNIPROT ID: P28907	
Immunogen Catalog Number: AG17868	Full Name: CD38 molecule	
	Calculated MW: 300 aa, 34 kDa	
	Observed MW: 40-45 kDa	

Applications

Tested Applications:

FC, IHC, WB, ELISA

Cited Applications:

WB, IF, IHC

Species Specificity:

human

Cited Species:

human

Positive Controls:

WB: Raji cells, HL-60 cells, Daudi cells, Ramos cells

IHC: human tonsillitis tissue, human appendicitis 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).

Notable Publications

Author	Pubmed ID	Journal	Application
Hua Bai	30326911	Cell Commun Signal	IF
Shan Liao	25310288	Oncol Rep	WB, IHC
Zhuang Ding	34211854	Front Oncol	IHC

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

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

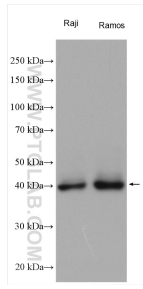
T: 4006900926

E: Proteintech-CN@ptglab.com

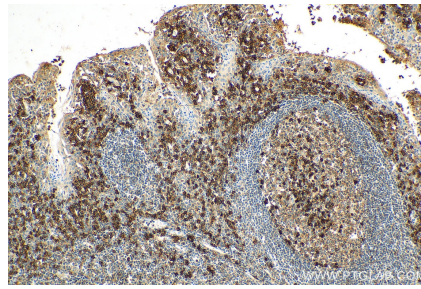
W: ptgcn.com

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

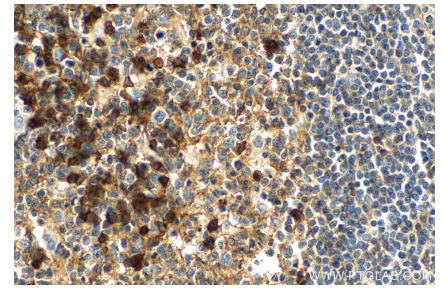
Selected Validation Data



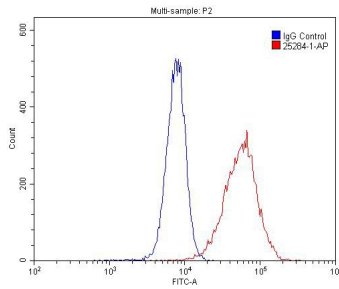
Various lysates were subjected to SDS PAGE followed by western blot with 25284-1-AP (CD38 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 25284-1-AP (CD38 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 25284-1-AP (CD38 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1×10^6 HL-60 cells were stained with 0.2ug CD38 antibody (25284-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.