



# Anti-CD38 polyclonal antibody (CPB-323RH)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Rabbit Anti-CD38 Polyclonal Antibody
<b>Antigen Description</b>	CD38, also known as ADP-ribosyl cyclase, is a glycoprotein expressed on the surface of immune cells including B and T lymphocytes, osteoclasts, as well as cardiac, pancreatic, liver and kidney cells. CD38 is a multifunctional ectoenzyme that catalyzes the synthesis and hydrolysis of cyclic ADP-ribose (cADPR) from NAD <sup>+</sup> to ADP-ribose. Through its production of cyclic ADP-ribose, CD38 modulates calcium-mediated signal transduction in many types of cells, including neutrophils and pancreatic $\beta$ cells. CD38 functions in cell adhesion, signal transduction and calcium signaling. Defects of CD38 is associated with impaired immune responses, metabolic disturbances, and behavioral modifications, and thus has been connected to HIV infection, leukemias, myelomas, solid tumors, type II diabetes mellitus and bone metabolism, as well as some genetically determined conditions.
<b>Specificity</b>	Human CD38.
<b>Target</b>	CD38
<b>Immunogen</b>	Recombinant human CD38 protein.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	N/A
<b>Conjugate</b>	Unconjugated
<b>Preparation</b>	Produced in rabbits immunized with purified, human cell-derived, recombinant human CD38 (Val 43-Ile 300). Total IgG was purified by Protein A affinity chromatography.
<b>Format</b>	0.2 $\mu$ m filtered solution in PBS with 5% trehalose.
<b>Size</b>	200 $\mu$ g

<b>Preservative</b>	None
<b>Storage</b>	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -70°C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">CD38 CD38 molecule [ Homo sapiens ]</a>
<b>Official Symbol</b>	CD38
<b>Synonyms</b>	CD38; CD38 molecule; CD38 antigen (p45); ADP-ribosyl cyclase 1; ADP ribosyl cyclase 1; NAD(+) nucleosidase; cADPr hydrolase 1; cyclic ADP-ribose hydrolase 1; ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase; T10;
<b>Entrez Gene ID</b>	<a href="#">952</a>
<b>Protein Refseq</b>	<a href="#">NP_001766</a>
<b>UniProt ID</b>	P28907
<b>Chromosome Location</b>	4p15.32
<b>Pathway</b>	Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem; Metabolic pathways, organism-specific biosystem; Nicotinate and nicotinamide metabolism, organism-specific biosystem; Nicotinate and nicotinamide metabolism, conserved biosystem;
<b>Function</b>	NAD+ nucleosidase activity; hydrolase activity, acting on glycosyl bonds; nucleotide binding; phosphorus-oxygen lyase activity; receptor activity;