

**CD38 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP2878b****Specification**

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**CD38 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [P28907](#)**CD38 Antibody (C-term) Blocking Peptide - Additional Information**

Gene ID 952

**Other Names**

ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1, 2'-phospho-ADP-ribosyl cyclase, 2'-phospho-ADP-ribosyl cyclase/2'-phospho-cyclic-ADP-ribose transferase, 2'-phospho-cyclic-ADP-ribose transferase, ADP-ribosyl cyclase 1, ADPRC 1, Cyclic ADP-ribose hydrolase 1, cADPr hydrolase 1, T10, CD38, CD38

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP2878b](#) was selected from the C-term region of human CD38. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**CD38 Antibody (C-term) Blocking Peptide - Protein Information**

Name CD38

**Function**

Synthesizes cyclic ADP-ribose (cADPR), a second messenger for glucose-induced insulin secretion (PubMed: [8253715](http://www.uniprot.org/citations/8253715)), PubMed: [7961800](http://www.uniprot.org/citations/7961800)). Synthesizes the Ca(2+) mobilizer nicotinate-adenine dinucleotide phosphate, NAADP(+), from 2'-phospho-cADPR and nicotinic acid, as well as from NADP(+) and nicotinic acid. At both pH 5.0 and pH 7.4 preferentially transforms 2'-phospho-cADPR into NAADP(+), while preferentially cleaving NADP(+) to cADPR and ADPRP rather than into NADDP(+) (PubMed: [16690024](http://www.uniprot.org/citations/16690024)). Has cADPR hydrolase activity (PubMed: [8253715](http://www.uniprot.org/citations/8253715), PubMed: [7961800](http://www.uniprot.org/citations/7961800)

target="\_blank">7961800</a>).

**Cellular Location**

Cell surface. Membrane; Single-pass type II membrane protein

**Tissue Location**

Expressed at high levels in pancreas, liver, kidney, brain, testis, ovary, placenta, malignant lymphoma and neuroblastoma.

**CD38 Antibody (C-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**CD38 Antibody (C-term) Blocking Peptide - Images****CD38 Antibody (C-term) Blocking Peptide - Background**

CD38 is a novel multifunctional ectoenzyme widely expressed in cells and tissues especially in leukocytes. CD38 also functions in cell adhesion, signal transduction and calcium signaling.

**CD38 Antibody (C-term) Blocking Peptide - References**

Horenstein, A.L., Mol. Med. 15 (3-4), 76-84 (2009) Liu, Q., Biochemistry 47 (52), 13966-13973 (2008) Liu, Q., Chem. Biol. 15 (10), 1068-1078 (2008)