

**CD138 Antibody (C-term K281) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP2948b****Specification**

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**CD138 Antibody (C-term K281) Blocking Peptide - Product Information**Primary Accession [P18827](#)**CD138 Antibody (C-term K281) Blocking Peptide - Additional Information****Gene ID** 6382**Other Names**

Syndecan-1, SYND1, CD138, SDC1, SDC

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP2948b](/products/AP2948b) was selected from the C-term region of human CD138. 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.

**CD138 Antibody (C-term K281) Blocking Peptide - Protein Information****Name** SDC1 ([HGNC:10658](#))**Synonyms** SDC**Function**

Cell surface proteoglycan that contains both heparan sulfate and chondroitin sulfate and that links the cytoskeleton to the interstitial matrix (By similarity). Regulates exosome biogenesis in concert with SDCBP and PDCD6IP (PubMed: <http://www.uniprot.org/citations/22660413> target="\_blank">22660413</a>). Able to induce its own expression in dental mesenchymal cells and also in the neighboring dental epithelial cells via an MSX1-mediated pathway (By similarity).

**Cellular Location**

Membrane; Single-pass type I membrane protein. Secreted  
Note=Shedding of the ectodomain produces a soluble form

**Tissue Location**

Detected in placenta (at protein level) (PubMed:32337544). Detected in fibroblasts (at protein level) (PubMed:36213313).

**CD138 Antibody (C-term K281) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**CD138 Antibody (C-term K281) Blocking Peptide - Images****CD138 Antibody (C-term K281) Blocking Peptide - Background**

CD138 is a transmembrane (type I) heparan sulfate proteoglycan and is a member of the syndecan proteoglycan family. The syndecans mediate cell binding, cell signaling, and cytoskeletal organization and syndecan receptors are required for internalization of the HIV-1 tat protein. The syndecan-1 protein functions as an integral membrane protein and participates in cell proliferation, cell migration and cell-matrix interactions via its receptor for extracellular matrix proteins.

**CD138 Antibody (C-term K281) Blocking Peptide - References**

Rikova,K., et.al., Cell 131 (6), 1190-1203 (2007)Endo,K., et.al., J. Biol. Chem. 278 (42), 40764-40770 (2003)