10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CD138 Antibody (C-term K281)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP2948b

Specification

CD138 Antibody (C-term K281) - Product Information

Application	**WB,E**
Primary Accession	P18827
Other Accession	P26260, P18828, P47951, Q08DZ5
Reactivity	**Human**
Predicted	**Bovine, Hamster, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**266-295**

CD138 Antibody (C-term K281) - Additional Information

Gene ID 6382

Other Names
Syndecan-1, SYND1, CD138, SDC1, SDC

Target/Specificity
This CD138 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 266-295 amino acids from the C-terminal region of human CD138.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CD138 Antibody (C-term K281) is for research use only and not for use in diagnostic or therapeutic procedures.

CD138 Antibody (C-term K281) - 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:22660413). 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 Secreted, extracellular exosome Note=Shedding of the ectodomain produces a soluble form

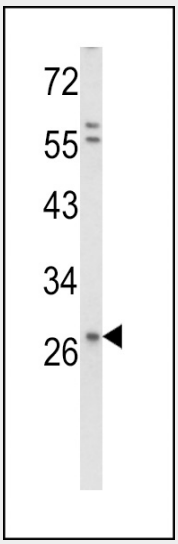
Tissue Location
Detected in placenta (at protein level) (PubMed:32337544). Detected in fibroblasts (at protein level) (PubMed:36213313).

CD138 Antibody (C-term K281) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CD138 Antibody (C-term K281) - Images



Western blot analysis of CD138 Antibody (C-term K281) (Cat. #AP2948b) in HepG2 cell line lysates (35ug/lane). CD138 (arrow) was detected using the purified Pab.

CD138 Antibody (C-term K281) - 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) - References

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