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CD138 Antibody (C-term) (Ascites)
Mouse Monoclonal Antibody (Mab)
Catalog # AM2142a

Specification

CD138 Antibody (C-term) (Ascites) - Product Information

Application	**WB, IF, FC,E**
Primary Accession	P18827
Other Accession	NP_001006947.1
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgM**
Calculated MW	**32462**
Antigen Region	**210-238**

CD138 Antibody (C-term) (Ascites) - Additional Information

Gene ID 6382

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

Target/Specificity
This CD138 antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 210-238 amino acids from the C-terminal region of human CD138.

Dilution
WB~~1:500~8000
IF~~1:10~50
FC~~1:10~50
E~~Use at an assay dependent concentration.

Format
Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.

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) (Ascites) is for research use only and not for use in diagnostic or therapeutic procedures.

CD138 Antibody (C-term) (Ascites) - 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

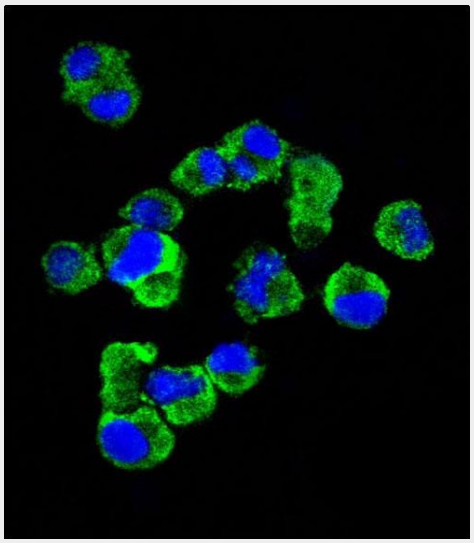
Tissue Location
Detected in placenta (at protein level) (PubMed:32337544). Detected in fibroblasts (at protein level) (PubMed:36213313).

CD138 Antibody (C-term) (Ascites) - 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) (Ascites) - Images



Confocal immunofluorescent analysis of CD138 Antibody (C-term) (Ascites)(Cat#AM2142a) with U266 cell followed by Alexa Fluor® 488-conjugated goat anti-mouse IgG (green).DAPI was used to stain the cell nuclear (blue).

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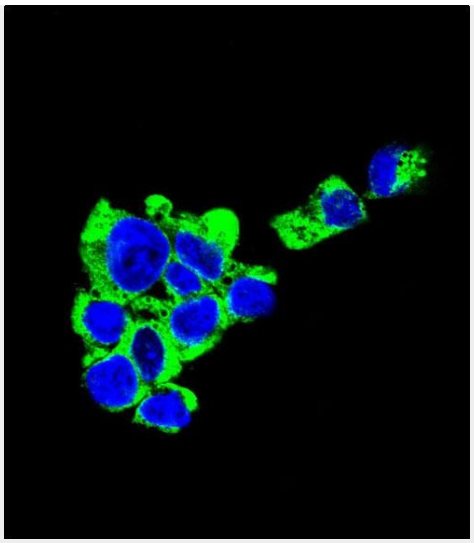
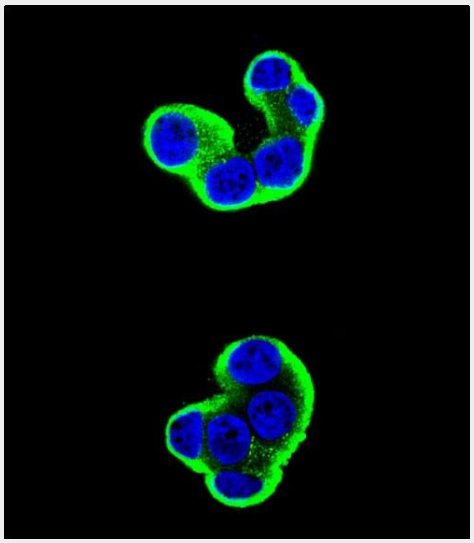
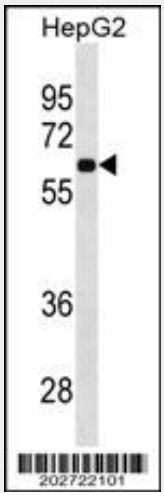


Confocal immunofluorescent analysis of CD138 Antibody (C-term) (Ascites)(Cat#AM2142a) with HepG2 cell followed by Alexa Fluor® 488-conjugated goat anti-mouse lgG (green).DAPI was used to stain the cell nuclear (blue).



Confocal immunofluorescent analysis of CD138 Antibody (C-term) (Ascites)(Cat#AM2142a) with T47D cell followed by Alexa Fluor® 488-conjugated goat anti-mouse lgG (green).DAPI was used to stain the cell nuclear (blue).



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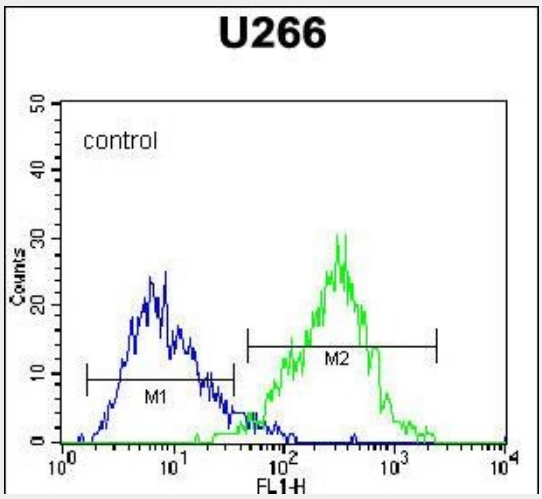
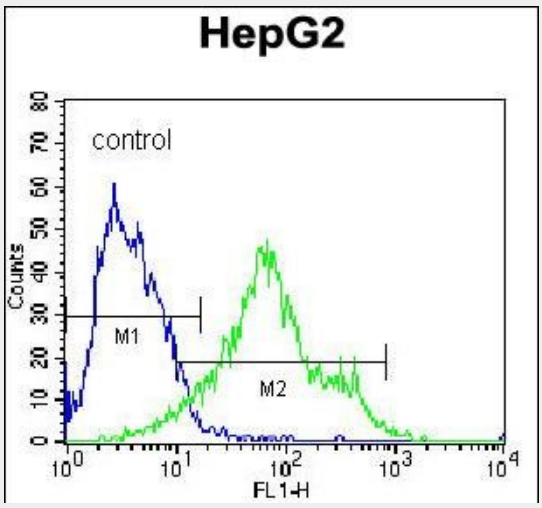
CD138 Antibody (C-term)(Ascites)(Cat. #AM2142a) western blot analysis in HepG2 cell line lysates (35µg/lane).This demonstrates the CD138 antibody detected the CD138 protein (arrow).



CD138 Antibody (C-term) (Ascites) (Cat. #AM2142a) flow cytometric analysis of U266 cells (right histogram) compared to a negative control cell (left histogram).Alexa Fluor® 488-conjugated donkey anti-mouse IgG secondary antibodies were used for the analysis



CD138 Antibody (C-term) (Ascites) (Cat. #AM2142a) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram).Alexa Fluor® 488-conjugated donkey anti-mouse IgG secondary antibodies were used for the analysis

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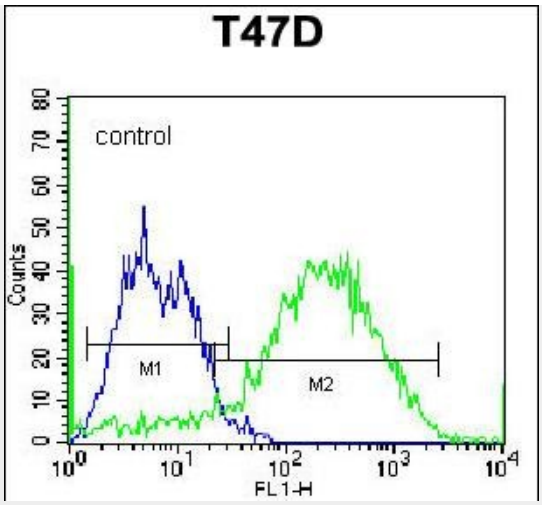

CD138 Antibody (C-term) (Ascites) (Cat. #AM2142a) flow cytometric analysis of T47D cells (right histogram) compared to a negative control cell (left histogram).Alexa Fluor® 488-conjugated donkey anti-mouse IgG secondary antibodies were used for the analysis

CD138 Antibody (C-term) (Ascites) - Background

The protein encoded by this gene 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. Altered syndecan-1 expression has been detected in several different tumor types. While several transcript variants may exist for this gene, the full-length natures of only two have been described to date. These two represent the major variants of this gene and encode the same protein.

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

Tsai, E.W., et al. Transplantation 90(8):875-881(2010) Hozumi, K., et al. FEBS Lett. 584(15):3381-3385(2010) Zyada, M.M., et al. Ann Diagn Pathol 14(3):153-161(2010) Al-Shibli, K., et al. APMIS 118(5):371-382(2010) Szumilo, J., et al. Folia Histochem. Cytobiol. 47(4):571-578(2009)

CD138 Antibody (C-term) (Ascites) - Citations

- Anti-human CD138 monoclonal antibodies and their bispecific formats: generation and characterization.