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CD138 Antibody (C-term) (Ascites)

Mouse Monoclonal Antibody (Mab)
Catalog # AM2142a

Product Information

Application	WB, FC, IF, E
Primary Accession	P18827
Other Accession	NP_001006947.1
Reactivity	Human
Predicted	Rat, Rabbit
Host	Mouse
Clonality	Monoclonal
Isotype	IgM
Clone Names	587CT7.3.6.5
Calculated MW	32462
Antigen Region	210-238

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 FC~~1:10~50 IF~~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.

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).

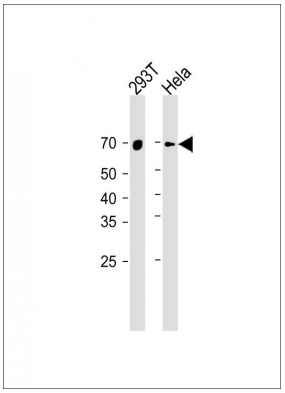
Background

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.

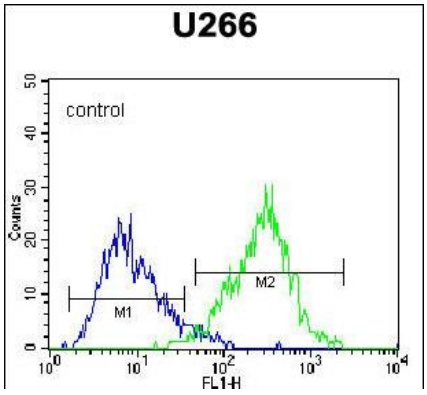
References

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)

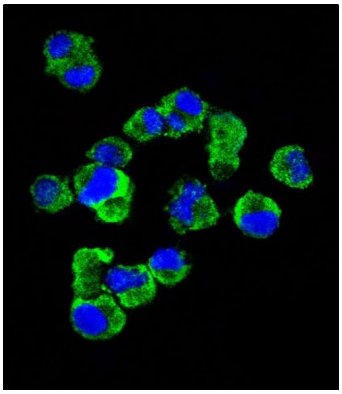
Images



All lanes: Anti-CD138 Antibody (C-term) at 1:1000 dilution Lane 1: 293T whole cell lysate Lane 2: Hela whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Mouse IgG, (H+L), Peroxidase conjugated (ASP1613) at 1/8000 dilution. Observed band size: 70 KDa Blocking/Dilution buffer: 5% NFDM/TBST.



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 IgM secondary antibodies were used for the analysis



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

Citations

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.