CD138 monoclonal antibody

Catalog: MB66915 Host: Mouse Reactivity: Human

BackGround:

Syndecans are a family of type 1 transmembrane heparan sulphate proteoglycans comprising four members in mammals encoded by four syndecan genes. Syndecans are involved in embryonic development, tumorigenesis, and angiogenesis. The extracellular domain harbors attachment sites for heparan sulfate and chondroitin sulfate chains, facilitating interaction with an array of proteins including a plethora of growth factors. In addition, the hydrophobic C-terminal intracellular domain can interact with proteins containing a PDZ domain. These interactions place syndecans as important integrators of membrane signaling. Syndecans undergo proteolytic cleavage causing the release of their extracellular domain , converting the membrane-bound proteins into soluble molecular effectors.Syndecan 1 is a specific marker for plasmacytic differentiation in hematologic disorders . This cell surface proteoglycan is also expressed in normal epithelial cells and tissues as well as various types of cancer tissues. The extracellular shed form of syndecan 1 remains soluble or accumulates in the extracellular matrix where it binds growth factors, cytokines and other extracellular matrix proteins. This binding activates signaling of bound growth factors or cytokines, which results in enhanced tumor growth, dissemination, angiogenesis, and osteolysis. As a result, the level of syndecan1 protein and its shed form may serve as prognostic factors for a list of malignancies.

Product:

Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 70 kDa

Swiss-Prot:

P18827

Purification&Purity:

This antibody is purified through a protein G column.

Applications:

WB (1/500 - 1/1000), IF/ICC (1/100 - 1/200), FC (1/10 - 1/50)

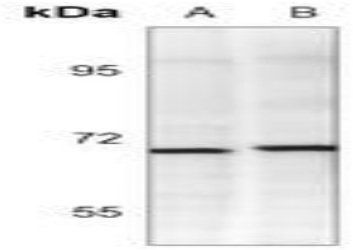
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

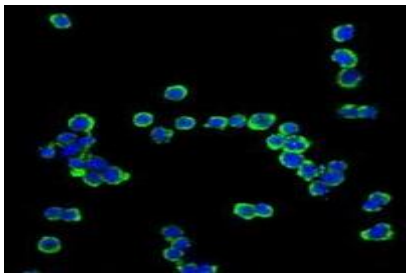
Specificity:

Recognizes endogenous levels of CD138 protein.

DATA:



Western blot analysis of CD138 expression in Hela (A), HepG2 (B) whole cell lysates.



Immunofluorescent analysis of CD138 staining in Jurkat cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 ℃ in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

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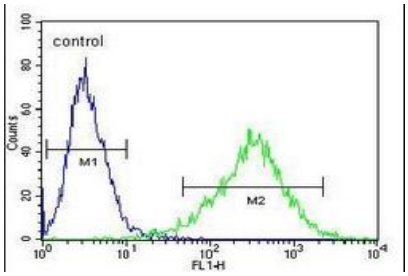

Note:

For research use only, not for use in diagnostic procedure.

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