



11-814-C100

Monoclonal Antibody to CD138 Purified Antibody (0.1 mg)

Clone:	MI15
Isotype:	Mouse IgG1
Specificity:	The mouse monoclonal antibody MI15 recognizes CD138 (syndecan 1), a 65-70 kDa heparan sulfate proteoglycan expressed mainly in the epidermis and plasma cells, but also in growth factor-stimulated lymphocytes.
Regulatory Status:	RUO
Immunogen:	A mixture of U266 and XG-1 human myeloma cell lines
Species Reactivity:	Human, Non-Human Primates, Rat
Application:	Flow Cytometry Immunoprecipitation Western Blotting Immunohistochemistry (paraffin sections)
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified from hybridoma culture supernatant by protein-A affinity chromatography.
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
Background:	CD138 (syndecan 1) is a transmembrane proteoglycan that can bind a variety of cytokines and modulate their activity, as well as the activity of extracellular matrix components and influence many developmental processes. CD138 is expressed mainly in differentiating keratinocytes and is transiently upregulated in all layers of the epidermis upon tissue injury. It is also highly expressed on plasma cells and can be detected even on fibroblasts, vascular smooth muscle cells and endothelial cells. Up-regulation and down-regulation of CD138 on the cell surface often correlates with the gain of cancerous characteristics. Serum levels of the shedded soluble sCD138 are used as a prognostic factor of cancerogenesis.

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**Antibodies****References:**

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- *Nadalin MR, Fregnani ER, Silva-Sousa YT, Perez DE: Syndecan-1 (CD138) and Ki-67 expression in odontogenic cystic lesions. *Braz Dent J.* 2011;22(3):223-9.
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