

# Mouse Syndecan-1/CD138 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF3190

DESCRIPTION			
Species Reactivity	Mouse		
Specificity	Detects mouse Syndecan-1/CD138 in direct ELISAs and Western blots. In Western blots, approximately 5% cross-reactivity with recombination human (rh) Syndecan-1 is observed and less than 1% cross-reactivity with rhSyndecan-2, recombinant mouse (rm) Syndecan-3 and rmSyndecan-4 is observed.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Syndecan-1/CD138 isoform 1 Gln18-Glu252 Accession # P18828		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

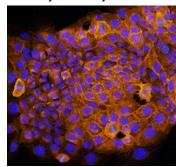
## APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample	
Western Blot	0.1 μg/mL	Recombinant Mouse Syndecan-1/CD138 (Catalog # 3190-SD)	
Flow Cytometry	2.5 μg/10 <sup>6</sup> cells	T1165 mouse plasmacytoma cell line	
Immunocytochemistry	5-15 μg/mL	See Below	
Immunohistochemistry	3-15 μg/mL	See Below	
CyTOF-ready	Ready to be labeled with conjugation.	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

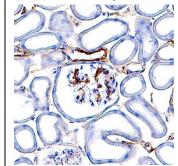
#### DATA

#### Immunocytochemistry



Syndecan-1/CD138 in NMuMG Mouse Cell Line. Syndecan-1/CD138 was detected in immersion fixed NMuMG mouse mammary gland epithelial cell line using Mouse Syndecan-1/CD138 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3190) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (yellow; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to cell surfaces and cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coversiins

#### Immunohistochemistry



Syndecan-1/CD138 in Mouse Kidney. Syndecan-1/CD138 was detected in perfusion fixed frozen sections of mouse kidney using Goat Anti-Mouse Syndecan-1/CD138 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3190) at 3 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Goat IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC004). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to glomeruli and convoluted tubules. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

### PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

#### 

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

#### BACKGROUNI

Syndecan-1 (also known as CD138) is a variably glycosylated, dimeric, type I transmembrane (TM) protein that belongs to the Syndecan family. It is synthesized as a 311 amino acid (aa) precursor that contains a 17 aa signal sequence, a 235 aa extracellular domain (ECD), a 25 aa TM segment, and a 34 aa cytoplasmic region. The ECD shows various degrees of heparan sulfate and chondroitin sulfate modification, leading to native molecular weights for Syndecan-1 of 120-200 kDa. Proteolytic cleavage of the membrane-bound ECD yields soluble forms of approximately the same molecular weight. Syndecan-1 is an epithelial cell Syndecan involved in Wnt and chemokine signaling. The amino acid sequence of mouse Syndecan-1 ECD shares 71% identity with that of the ECD of both rat and human Syndecan-1.

Rev. 2/6/2018 Page 1 of 1

