

Basic Information

Product Name	Anti-CD138/Syndecan-1/SDC1 Antibody
Gene Name	SDC1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human
Tested Application	WB
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E. coli-derived human Syndecan-1/SDC1 recombinant protein (Position: Q23-G254). Human Syndecan-1/SDC1 shares 69.2% and 69.8% amino acid (aa) sequence identity with mouse and rat Syndecan-1/SDC1, respectively.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	65 kDa
Dilution Ratios	Western blot (WB):1:500-2000

Storage

12 months from date of receipt, -20°C as supplied.

Background Information

Syndecan 1 is a protein which in humans is encoded by the SDC1 gene. 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 nature of only two have been described to date. These two represent the major variants of this gene and encode the same protein.

Selected Validation Data



Western blot analysis of CD138/Syndecan-1/SDC1 using anti-CD138/Syndecan-1/SDC1 antibody (A00991-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human placenta tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-CD138/Syndecan-1/SDC1 antigen affinity purified polyclonal antibody (A00991-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for CD138/Syndecan-1/SDC1 at approximately 65 kDa. The expected band size for CD138/Syndecan-1/SDC1 is at 32 kDa.