

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Syndecan-1/CD138 in direct ELISAs and Western blots. In Western blots, approximately 5% cross-reactivity with recombinant human (rh) Syndecan-1 is observed and less than 1% cross-reactivity with rhSyndecan-2, recombinant mouse
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
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

CyTOF-ready	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
Flow Cytometry	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

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.

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