

Human Syndecan-1/CD138 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF2780

DESCRIPTION

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Species Reactivity	Human		
Specificity	Detects human Syndecan-1/CD138 in ELISAs and Western blots. In sandwich ELISAs, less than 0.3% cross-reactivity with recombinant human (rh) Syndecan-2, rhSyndecan-3, rhSyndecan-4, and recombinant mouse Syndecan-1 is observed.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Syndecan-1/CD138 Gln18-Glu251 Accession # NP_002988		
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 Human Syndecan-1/CD138 (Catalog # 2780-SD)
Immunohistochemistry	5-15 µg/mL	See Below
Human Syndecan-1/CD138 Sandwid	ch Immunoassay	Reagent
ELISA Capture	0.2-0.8 μg/mL	Human Syndecan-1/CD138 Antibody (Catalog # AF2780)
ELISA Detection	0.1-0.4 μg/mL	Human Syndecan-1/CD138 Biotinylated Antibody (Catalog # BAF2780)
Standard		Recombinant Human Syndecan-1/CD138 (Catalog # 2780-SD)

DATA

Immunohistochemistry



Syndecan-1/CD138 in Human Ileum. Syndecan-1/CD138 was detected in immersion fixed paraffin-embedded sections of human ileum using Human Syndecan-1/CD138 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2780) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

Immunohistochemistry



Syndecan-1/CD138 in Human Jejunum. Syndecan-1/CD138 was detected in immersion fixed paraffin-embedded sections of human jejunum using Human Syndecan-1/CD138 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2780) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Lower panel shows a lack of labeling if primary antibodies are omitted and tissue is stained only with secondary antibody followed by incubation with detection reagents. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

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 $^\circ$ C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
	 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.

BACKGROUND

Human 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 310 amino acid (aa) precursor that contains a 17 aa signal sequence, a 234 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. Human Syndecan-1 ECD shares 71% aa identity with the ECD of both rat and mouse Syndecan-1.

References:

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