



## Anti-SDC1 polyclonal antibody (DPABY-311)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

<b>Antigen Description</b>	Syndecans are type 1 transmembrane proteoglycans that constitute the major physiological form of heparan sulfate (HS) on the cell surface. The four vertebrate syndecans, Syndecan-1 through -4, have similar short cytoplasmic domains and extracellular portions that diverge, except for HS attachment sites. Structurally diverse side chains add considerably to the size of the core proteins and serve as binding sites for growth factors, cytokines, and extracellular matrix proteins. Syndecans are present as homodimers or multimers, and are often expressed in developmental and cell type-specific patterns. They have many biological roles including regulating cell growth, differentiation, and adhesion.
<b>Specificity</b>	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.
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human Syndecan-1/CD138. Gln18-Glu251 Accession Number NP_002988
<b>Isotype</b>	IgG
<b>Source/Host</b>	Goat
<b>Species Reactivity</b>	Human
<b>Purification</b>	Antigen Affinity-purified
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	Western Blot, Immunohistochemistry, ELISA Capture (Matched Pair)
<b>Format</b>	Liquid
<b>Size</b>	100 µg
<b>Buffer</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.

<b>Preservative</b>	None
<b>Storage</b>	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <p>12 months from date of receipt, -20 to -70 °C as supplied.</p> <p>1 month from date of receipt, 2 to 8 °C, reconstituted.</p> <p>6 months from date of receipt, -20 to -70 °C, reconstituted.</p>

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">SDC1 syndecan 1 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	SDC1
<b>Synonyms</b>	SDC1; syndecan 1; SDC; CD138; SYND1; syndecan; syndecan-1; CD138 antigen; syndecan proteoglycan 1; heparan sulfate proteoglycan fibroblast growth factor receptor;
<b>Entrez Gene ID</b>	<a href="#">6382</a>
<b>Protein Refseq</b>	<a href="#">NP_001006947</a>
<b>UniProt ID</b>	<a href="#">P18827</a>
<b>Chromosome Location</b>	2p24.1
<b>Pathway</b>	A tetrasaccharide linker sequence is required for GAG synthesis; Arf6 trafficking events; Cell adhesion molecules (CAMs); Chondroitin sulfate/dermatan sulfate metabolism; Chylomicron-mediated lipid transport; Disease; Diseases associated with visual trans
<b>Function</b>	cytoskeletal protein binding; glycoprotein binding; protein C-terminus binding; protein binding;