



Anti-SDC1 polyclonal antibody [Biotin] (DPABY-547)

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

PRODUCT INFORMATION

Antigen Description	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.
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.
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Syndecan-1/CD138. Gln18-Glu251 Accession Number NP_002988
Isotype	IgG
Source/Host	Goat
Species Reactivity	Human
Purification	Antigen Affinity-purified
Conjugate	Biotin
Applications	Western Blot, Immunohistochemistry, ELISA Detection (Matched Pair)
Format	Liquid

Size	50 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
Preservative	None
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.

GENE INFORMATION

Gene Name	SDC1 syndecan 1 [Homo sapiens (human)]
Official Symbol	SDC1
Synonyms	SDC1; syndecan 1; SDC; CD138; SYND1; syndecan; syndecan-1; CD138 antigen; syndecan proteoglycan 1; heparan sulfate proteoglycan fibroblast growth factor receptor;
Entrez Gene ID	6382
Protein Refseq	NP_001006947
UniProt ID	P18827
Chromosome Location	2p24.1
Pathway	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
Function	cytoskeletal protein binding; glycoprotein binding; protein C-terminus binding; protein binding;