

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Syndecan-3 in Western blots. In Western blots, less than 2% cross-reactivity with recombinant mouse (rm) Syndecan-1, recombinant human (rh) Syndecan-2, rhSyndecan-3, and rmSyndecan-4 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Syndecan-3 Ala45-Glu384 Accession # Q64519
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

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 Mouse Syndecan-3

PREPARATION AND STORAGE

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.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 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

Mouse Syndecan-3 (also known as N-Syndecan) is a variably glycosylated type I transmembrane (TM) protein that belongs to the Syndecan family. It is synthesized as a 442 amino acid (aa) precursor with a 45 aa signal sequence, a 339 aa extracellular domain (ECD), a 25 aa TM segment and a 33 aa cytoplasmic region. It presumably exists as a dimer. Heparan sulfate modification of the ECD yields a native molecular weight that exceeds 200 kDa. Soluble forms generated by proteolytic processing are suggested to exist. Syndecan-3 is a musculoskeletal and neuronal molecule which mediates neurite outgrowth and myoblast differentiation. Mouse Syndecan-3 ECD shares 95% and 81% aa sequence identity with rat and human Syndecan-3 ECD, respectively.