

DESCRIPTION

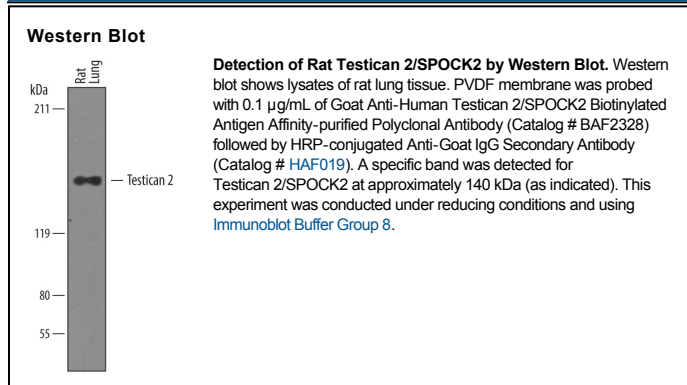
Species Reactivity	Human
Specificity	Detects human Testican 2/SPOCK2 in Western blots. In Western blots, less than 5% cross-reactivity with recombinant human (rh) Testican 1 and rhTestican 3 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Testican 2/SPOCK2 Glu23-Trp424 Accession # Q92563
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	See Below

DATA



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	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <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

Testican 2 (also SPOCK2) is a 60-140 kDa, secreted multidomain proteoglycan that belongs to the BM-40/SPARC family of extracellular proteins. It is expressed by neurons (both excitatory and GABAergic) plus brain endothelial cells, and appears to abrogate testican 1 and 3 mediated inhibition of MT1- and MT3-MMP activity. Mature human Testican 2 is 402 amino acids (aa) in length (aa 23-424). It contains a unique 66 aa N terminus, followed by a Kazal-like follistatin domain (aa 89-192), a collagen-binding domain (aa 210-219), a Ca⁺⁺ binding region, one thyroglobulin-like segment (aa 310-376) and an acidic C-terminus that contains two potential GAG attachment sites at Ser383 and Ser388. The wide variation in native MW reflects the capabilities of differing cells to add glycan adducts to the molecule. Typically, it appears to lie between 80-125 kDa. There are potential splice variants. One shows an alternative start site at Met110, a second shows a deletion of aa 64-66, while a third contains a 14 aa substitution for aa 64-242. Mature human Testican 2 is 94% aa identical to mouse and rat Testican 2.