

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Biglycan in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Biglycan Asp38-Lys368 Accession # P21810
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 Human Biglycan (Catalog # 2667-CM)

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

Biglycan is a small secreted proteoglycan belonging to the leucine-rich repeat (LRR) protein family. It contains a central 12 LRR repeat domain flanked by small cysteine clusters at either side. Two glycosaminoglycans (GAG) chains are attached near the amino terminus. Biglycan binds BMP-4 and Chordin to regulate BMP-4 signaling. It may also be involved in collagen fiber assembly. Human Biglycan shares 98% amino acid sequence homology with mouse Biglycan, 97% sequence homology with rat and bovine Biglycan and 96% sequence homology with canine and equine Biglycan.