

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Biglycan in direct ELISAs and 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 Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

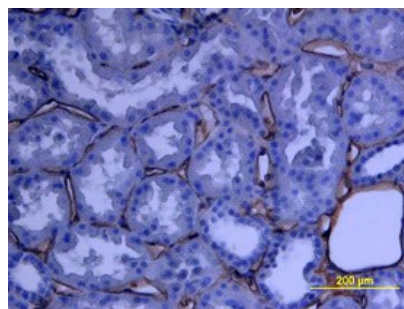
APPLICATIONS

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)
Immunohistochemistry	5-15 µg/mL	See Below

DATA

Immunohistochemistry



Biglycan in Human Kidney Array. Biglycan was detected in immersion fixed paraffin-embedded sections of human kidney array using Human Biglycan Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2667) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

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. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
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

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.