

Datasheet for KOA0820

Human Biglycan ELISA Kit**Overview**

Description:	Human Biglycan AccuSignal ELISA Kit - KOA0820
Item No.:	KOA0820
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	156 pg/ml - 10,000 pg/ml

Product Details

Background:	Biglycan (BGN) is a small leucine-rich repeat proteoglycan (SLRP) which is found in a variety of extracellular matrix tissues, including bone, cartilage and tendon. It is an important structural component of articular cartilage and participates in the assembly of the chondrocyte extracellular matrix through formation of protein interactions with type VI collagen and large proteoglycan aggregates. In humans, Biglycan is encoded by the BGN gene. It is mapped to Xq28. Biglycan is believed to play a role in the mineralisation of bone, and its core protein binds to the growth factors BMP-4 and influences its bioactivity. It has been reported that the presence of biglycan is necessary for BMP-4 to exert its effects on osteoblasts. There is also evidence that biglycan can bind to TGF-beta 1. In addition, Biglycan plays an important role in cell signaling.
Synonyms:	BGN, Biglycan, Biglycan proteoglycan, Bone/cartilage proteoglycan I, Dermatan sulphate proteoglycan I, DSPG1, PG S1, PG-S1, PGI, PGS1_HUMAN, SLRR1A, Small leucine rich protein 1A
Detection Kit Type:	ELISA Kit
Detection Range:	156 pg/ml - 10,000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	BGN
Reactivity:	Human
Immunogen:	Expression system for standard: NSO; Immunogen sequence: D38-K368

Purity/Specificity: Natural and recombinant human Biglycan. There is no detectable cross-reactivity with other relevant proteins.

Relevant Links:

- [UniProtKB - P21810](#)
- [NCBI - NP_001702.1](#)
- [GeneID - 633](#)
- [KOA0820 Protocol](#)

Application Details

Tested Applications: ELISA

Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 10,000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml, 156pg/ml human Biglycan standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum, plasma(heparin, EDTA) or tissue homogenates to each empty well. It is recommended that each human Biglycan standard solution and each sample be measured in duplicate.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 156 pg/ml-10,000 pg/ml

Other: DOE:
2-8° C - 02/23/2021
-20° C - 08/24/2021

Formulation

Concentration: 1 Kit

Anticoagulant: Heparin Sodium

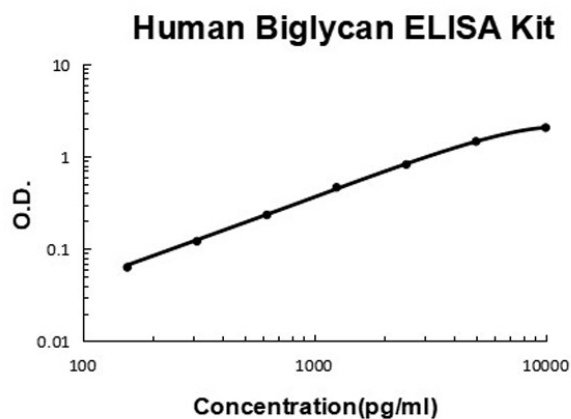
Shipping & Handling

Shipping Condition: Wet Ice

Storage Condition: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

Expiration: See kit insert for complete instructions.

Images



ELISA

Human Biglycan ELISA Kit standard curve.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.