Biglycan (BGN) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Biglycan (BGN), Polyclonal Antibody
Full Product Name	PE-Linked Polyclonal Antibody to Biglycan (BGN)
Product Gene Name	anti-BGN antibody
Product Synonym Names	DSPG1; PG-S1; PGI; SLRR1A; Biglycan Proteoglycan; Bone/cartilage proteoglycan I
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Mouse, Human, Rat
Concentration	>=100ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: BGN (MBS2004213) PE Conjugated Antibody: BGN (MBS2080963)
Matching Pairs	PE Conjugated Antibody: BGN (MBS2080963) Immunogen: BGN (MBS2009799)
Molecular Weight	41,654 Da
OMIM	J04599 mRNA
3D Structure	ModBase 3D Structure for P21810
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen	BGN (Ile242~Lys369)
Conjugation	PE
Cross Reactivity	Mouse
Unconjugated Antibody	The unconjugated antibody version of this item is also available as catalog #MBS2004213
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-BGN antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC) Formalin/Paraffin, ELISA (ELISA)
Related Product Information for anti-BGN antibody	MBS2080963 is an antibody targeting BGN. Also known as PE-Linked Polyclonal Antibody to Biglycan (BGN). Reactive in Mouse, Human, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-BGN antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BGN. It may not necessarily be applicable to this product.

NCBI GI #	4502403
NCBI GeneID	633
NCBI Accession #	NP_001702.1

UniProt Primary Accession #	P21810
UniProt Secondary Accession #	P13247; D3DWU3
UniProt Related Accession #	P21810
GenBank Nucleotide #	NM_001711.5
NCBI Official Full Name	biglycan preproprotein
NCBI Official Synonym Full Names	biglycan
NCBI Official Symbol	BGN
NCBI Official Synonym Symbols	PGI; MRLS; DSPG1; PG-S1; SEMDX; SLRR1A
UniProt Protein Name	Biglycan
UniProt Synonym Protein Names	Bone/cartilage proteoglycan I; PG-S1
Protein Family	Biglycan
UniProt Gene Name	BGN
UniProt Synonym Gene Names	SLRR1A
NCBI Protein Information	biglycan
NCBI Summary for BGN	This gene encodes a member of the small leucine-rich proteoglycan (SLRP) family of proteins. The encoded preproprotein is proteolytically processed to generate the mature protein, which plays a role in bone growth, muscle development and regeneration, and collagen fibril assembly in multiple tissues. This protein may also regulate inflammation and innate immunity. Additionally, the encoded protein may contribute to atherosclerosis and aortic valve stenosis in human patients. This gene and the related gene decorin are thought to be the result of a gene duplication. [provided by RefSeq, Nov 2015]
UniProt Comments for BGN	BGN: May be involved in collagen fiber assembly. Belongs to the small leucine-rich proteoglycan (SLRP) family. SLRP class I subfamily. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: Xq28 Cellular Component: cell surface; cytoplasm; extracellular matrix; extracellular region; Golgi lumen; lysosomal lumen; transport vesicle Molecular Function: protein kinase inhibitor activity Biological Process: chondroitin sulfate biosynthetic process; chondroitin sulfate catabolic process; cytokine and chemokine mediated signaling pathway; dermatan sulfate biosynthetic process; extracellular matrix organization and biogenesis; glycosaminoglycan metabolic process; negative regulation of JAK-STAT cascade; negative regulation of protein kinase activity Disease: Meester-loeys Syndrome; Spondyloepimetaphyseal Dysplasia, X-linked
Research Articles on BGN	**1.** biglycan exerts an important role in cell proliferation, migration, invasion and apoptosis in colon cancer.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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