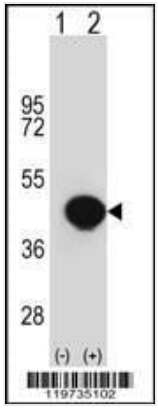
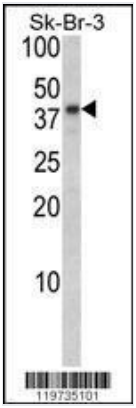
BGN Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	BGN, Polyclonal Antibody
Full Product Name	BGN, ID (Biglycan, Bone/Cartilage Proteoglycan I, PG-S1, SLRR1A) (MaxLight 405)
Product Gene Name	anti-BGN antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human BGN.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	39.5 kDa (352aa)
OMIM	301870
3D Structure	ModBase 3D Structure for P21810
Immunogen	Synthetic peptide selected from the center region of human BGN (KLH).
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-BGN antibody	Antibodies; Carbohydrates; Glycoproteins
Applications Tested/Suitable for anti-BGN antibody	Western Blot (WB), FLISA
Application Notes for anti-BGN antibody	WB: 1:50-1:100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-BGN antibody	MBS6465268 is an antibody targeting BGN. Also known as BGN, ID (Biglycan, Bone/Cartilage Proteoglycan I, PG-S1, SLRR1A) (MaxLight 405). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-BGN antibody	1. Nanao, K., Genomics 19(1), 27-30 (1994).
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.



Western Blot (WB) of anti-BGN antibody
Western blot analysis of BGN (arrow) using rabbit polyclonal BGN Antibody (Center). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the BGN gene.



Western Blot (WB) of anti-BGN antibody
Western blot analysis of BGN Antibody (Center) in Sk-Br-3 cell line lysates (35ug/lane). BGN (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-BGN antibody
Formalin-fixed and paraffin-embedded human brain tissue reacted with BGN Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-BGN antibody
BGN Antibody (Center) flow cytometric analysis of A375 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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
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
UniProt Entry Name	PGS1_HUMAN
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]
Research Articles on BGN	**1.** Results identified loss-of-function mutation in BGN gene in patients with an X-linked syndromic form of severe thoracic aortic aneurysms and dissections (TAAD) confirming BGN as causative gene in severe form of TAAD.
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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