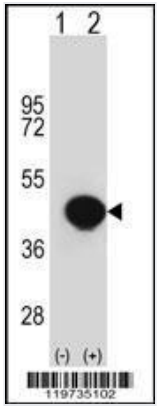
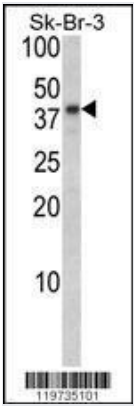
# BGN Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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|---|---|
| **Product Name** | BGN, Polyclonal Antibody |
| **Full Product Name** | BGN, ID (Biglycan, Bone/Cartilage Proteoglycan I, PG-S1, SLRR1A) (MaxLight 490) |
| **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 MaxLight490. |
| **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: MaxLight490 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** | MaxLight490 |
| **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<br>FLISA: 1:1,000<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-BGN antibody** | MBS6465269 is an antibody targeting BGN. Also known as BGN, ID (Biglycan, Bone/Cartilage Proteoglycan I, PG-S1, SLRR1A) (MaxLight 490). 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.

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|---|---|
| **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. |
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