

Rabbit BGN Polyclonal Antibody | anti-BGN antibody

BGN Antibody (Center)

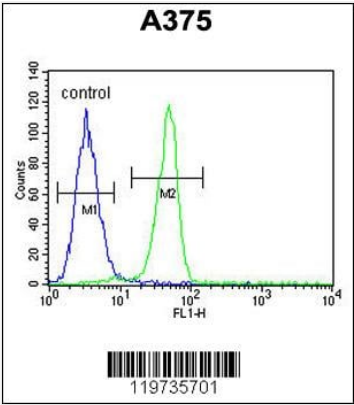
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA288773	Rabbit	Human(Predicted Reactivity: Sheep, Horse, Bovine, Mouse, Rat)	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

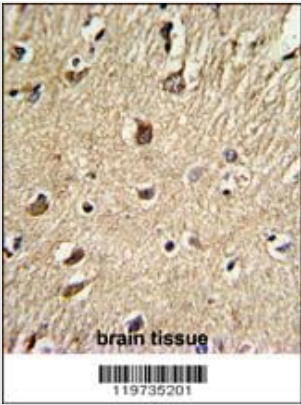
BGN; Polyclonal Antibody; BGN Antibody (Center); Biglycan; Bone/cartilage proteoglycan I; PG-S1; SLRR1A; anti-BGN antibody

PRODUCT SPECIFICATIONS

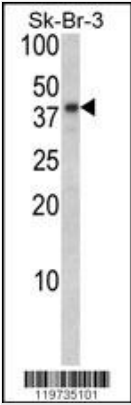
Host	Rabbit
Reactivity	Human (Predicted Reactivity: Sheep, Horse, Bovine, Mouse, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This BGN antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 148-176 amino acids from the Central region of human BGN.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	148-176
Sequence Length	368
Applicable Applications for anti-BGN antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Function	May be involved in collagen fiber assembly
Cellular Location	Secreted, extracellular space, extracellular matrix
Tissue Location	Found in several connective tissues especially in articular cartilages
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



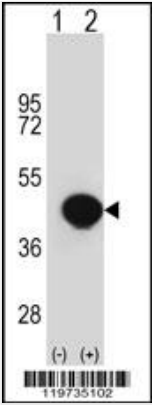
FCM/FACS (Flow Cytometry)
BGN Antibody (Center) flow cytometric analysis of A375 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemisry)
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.



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



WB (Western Blot)
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.

ADDITIONAL INFORMATION

Related Product Information for anti-BGN antibody	BGN is a small cellular or pericellular matrix proteoglycan that is closely related in structure to two other small proteoglycans, decorin and fibromodulin. The protein and decorin are thought to be the result of a gene duplication. Decorin contains one attached glycosaminoglycan chain, while this protein probably contains two chains. For this reason, this protein is called biglycan. This protein is thought to function in connective tissue metabolism by binding to collagen fibrils and transferring growth factor-beta. It may promote neuronal survival.
Product Categories/Family for anti-BGN antibody	Signal Transduction
References	Sardo,M.A., Clin. Chim. Acta 406 (1-2), 89-93 (2009) Hwang,J.Y., Am. J. Pathol. 173 (6), 1919-1928 (2008) Traupe,H., Genomics 13 (2), 481-483 (1992)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502403
NCBI GeneID	633
NCBI Accession #	NP_001702.1
NCBI GenBank Nucleotide #	NM_001711.4

UniProt Accession #	P21810; P13247; D3DWU3
Molecular Weight	41654
NCBI Official Full Name	biglycan preproprotein
NCBI Official Synonym Full Names	biglycan
NCBI Official Symbol	BGN
NCBI Official Synonym Symbols	PGI; DSPG1; PG-S1; SLRR1A
NCBI Protein Information	biglycan
UniProt Protein Name	Biglycan
UniProt Gene Name	BGN
UniProt Synonym Gene Names	SLRR1A
UniProt Entry Name	PGS1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/bgn-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/288773>