

BGN Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a full length recombinant BGN. Catalog # AT1296a

Specification

BGN Antibody (monoclonal) (M02) - Product Information

Application WB **Primary Accession** P21810 Other Accession BC002416 Reactivity Human Host mouse Clonality **Monoclonal** Isotype IgG2a kappa Calculated MW 41654

BGN Antibody (monoclonal) (M02) - Additional Information

Gene ID 633

Other Names

Biglycan, Bone/cartilage proteoglycan I, PG-S1, BGN, SLRR1A

Target/Specificity

BGN (AAH02416.1, 1 a.a. ~ 368 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2.

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

BGN Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

BGN Antibody (monoclonal) (M02) - Protocols

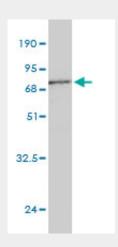
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

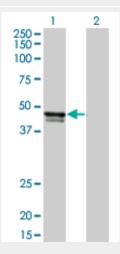


- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

BGN Antibody (monoclonal) (M02) - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (66.22 KDa).



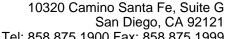
Western Blot analysis of BGN expression in transfected 293T cell line by BGN monoclonal antibody (M02), clone 2E6-D1.

Lane 1: BGN transfected lysate(41.7 KDa).

Lane 2: Non-transfected lysate.

BGN Antibody (monoclonal) (M02) - Background

The protein encoded by this gene is a small cellular or pericellular matrix proteoglycan that is closely related in structure to two other small proteoglycans, decorin and fibromodulin. The encoded 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 plays a role in assembly of collagen fibrils and muscle regeneration. It interacts with several proteins involved in muscular dystrophy, including alpha-dystroglycan, alpha- and gamma-sarcoglycan and collagen VI, and it is critical for the assembly of the dystrophin-associated protein complex.





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Growth factor-mediated hyper-elongation of glycosaminoglycan chains on biglycan requires transcription and translation. Yang SN, et al. Arch Physiol Biochem, 2009 Jul. PMID 19580379.Biglycan expression in hypertensive subjects with normal or increased carotid intima-media wall thickness. Sardo MA, et al. Clin Chim Acta, 2009 Aug. PMID 19523462.ApoCIII-enriched LDL in type 2 diabetes displays altered lipid composition, increased susceptibility for sphingomyelinase, and increased binding to biglycan. Hiukka A, et al. Diabetes, 2009 Sep. PMID 19502413. High-density association study of 383 candidate genes for volumetric BMD at the femoral neck and lumbar spine among older men. Yerges LM, et al. I Bone Miner Res, 2009 Dec. PMID 19453261. Potential roles for the small leucine-rich proteoglycans biglycan and fibromodulin in ectopic ossification of tendon induced by exercise and in modulating rotarod performance. Kilts T, et al. Scand | Med Sci Sports, 2009 Aug. PMID 19422643.