

Goat Anti-Biglycan Preproprotein Antibody
Peptide-affinity purified goat antibody
Catalog # AF1153a**Specification**

Goat Anti-Biglycan Preproprotein Antibody - Product Information

Application	WB, IHC, E
Primary Accession	P21810
Other Accession	NP_001702 , 633 , 12111 (mouse) , 25181 (rat)
Reactivity	Human, Rat
Predicted	Mouse, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	41654

Goat Anti-Biglycan Preproprotein Antibody - Additional Information**Gene ID** 633**Other Names**

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

Dilution

WB~~1:1000

IHC~~1:100~500

E~~N/A

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-Biglycan Preproprotein Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-Biglycan Preproprotein Antibody - Protein Information**Name** BGN**Synonyms** SLRR1A

Function

May be involved in collagen fiber assembly.

Cellular Location

Secreted, extracellular space, extracellular matrix

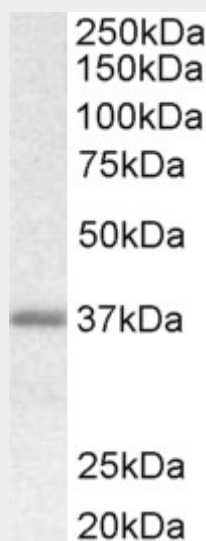
Tissue Location

Detected in placenta (at protein level) (PubMed:32337544). Found in several connective tissues, especially in articular cartilages.

Goat Anti-Biglycan Preproprotein Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-Biglycan Preproprotein Antibody - Images

AF1153a (0.1 µg/ml) staining of Rat Skin lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-Biglycan Preproprotein Antibody - 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.

Goat Anti-Biglycan Preproprotein Antibody - References

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. J 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 J Med Sci Sports, 2009 Aug. PMID 19422643.