abcam

ab109369

Anti-Biglycan antibody [EPR2959]

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR2959
Purification technique	Affinity purification Protein A
Concentration	1.823 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC/IF

Not recommended

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

WB

Tested

Species	Rat
Dilution info	1/1000 - 1/10000
Notes	-

Species	Human
Dilution info	1/1000 - 1/10000
Notes	-

Species	Mouse
Dilution info	1/1000 - 1/10000
Notes	-

IHC-P

Not recommended

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Rat
Dilution info	1/100 - 1/500
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Expected

Species	Human
Dilution info	1/100 - 1/500

Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Species	Mouse
Dilution info	1/100 - 1/500
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Target data

See full target information BGN

Function	May be involved in collagen fiber assembly.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Storage information	Stable for 12 months at -20°C

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Biglycan also known as BGN is a small leucine-rich proteoglycan with a molecular weight of roughly 38 kDa. Researchers frequently observe Biglycan in tissues such as bone cartilage and vasculature. The protein interacts with several other molecules in the extracellular matrix (ECM) including collagen and elastin to maintain the structural integrity of tissues. Through these interactions Biglycan plays an important role in supporting cell attachment and matrix organization.
Biological function summary	The protein Biglycan influences cellular processes such as growth and differentiation. It is part of a complex network within the ECM that modulates cell signaling. Biglycan interacts with growth factors like transforming growth factor-beta (TGF-beta) and binds to Toll-like receptors (TLRs) affecting immune responses. These capabilities reveal Biglycan’s involvement in tissue development and repair.
Pathways	Extracellular matrix modulation shows a significant role for Biglycan. It is involved in the TGF-beta signaling pathway and the inflammatory pathway mediated by TLRs. Through these pathways Biglycan interacts with proteins such as decorin and fibromodulin contributing to the regulation of collagen fibrillogenesis and inflammatory responses. Its role in these pathways highlights Biglycan’s influence in cellular communication and matrix regulation.
Associated diseases and disorders	Biglycan has associations with osteoarthritis and muscular dystrophy. In osteoarthritis researchers observe altered expression levels of Biglycan which affects cartilage integrity. In muscular dystrophy the protein’s connection to dystrophin an important structural protein is noted. These associations illustrate Biglycan's impact on disease progression and its potential as a therapeutic target.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

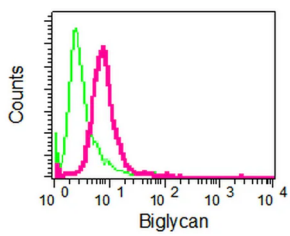
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

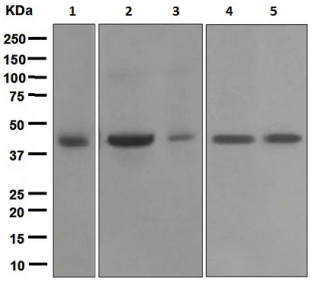
2 product images



Flow Cytometry (Intracellular) - Anti-Biglycan antibody [EPR2959] (ab109369)

Biglycan Flow Cytometry (Intracellular) staining using rabbit Anti-Biglycan antibody

Intracellular flow cytometric analysis of permeabilized L6 cells using ab109369 at 1/100 dilution (red) or a rabbit IgG (negative) (green).



Western blot - Anti-Biglycan antibody [EPR2959] (ab109369)

Biglycan Western blot staining using rabbit Anti-Biglycan antibody

All lanes:
Western blot - Anti-Biglycan antibody [EPR2959] (ab109369) at 1/1000 dilution

Lane 1:
Rat cartilage lysate at 10 µg

Lane 2:
L6 lysate at 10 µg

Lane 3:
C2C12 lysate at 10 µg

Lane 4:
Human skeletal muscle lysate at 10 µg

Lane 5:
Mouse muscle lysate at 10 µg

Secondary

All lanes:
HRP labelled Goat anti-Rabbit at 1/2000 dilution

Predicted band size: 42 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.