abcam

ab205891

Anti-Biglycan antibody [EPR2959] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR2959
Purification technique	Affinity purification Protein A
Concentration	1.035 - 1.052 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	Mouse, Human, Rat
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Rat, Human
Dilution info	-
Notes	-

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information BGN

Function May be involved in collagen fiber assembly.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab205891 is the carrier-free version of ab109369.

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.

Conjugation ready

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility

This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

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

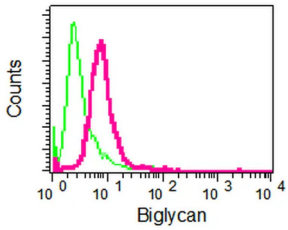
We do not recommend this combination. It is not covered by our product promise.

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.

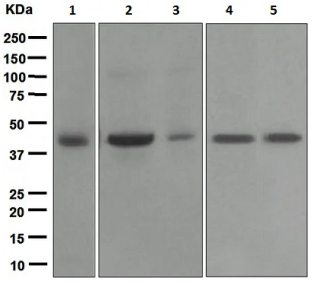
2 product images



Flow Cytometry (Intracellular) - Anti-Biglycan antibody [EPR2959] - BSA and Azide free (ab205891)

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

This data was developed using ab109369, the same antibody clone in a different buffer formulation.
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] - BSA and Azide free (ab205891)

Biglycan Western blot staining using rabbit Anti-Biglycan antibody

This data was developed using ab109369, the same antibody clone in a different buffer formulation.
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'.