

Product datasheet

Anti-Fibulin 5 antibody [EPR4506] ab109428

Recombinant RabMAb

[1 References](#) [4 Images](#)

Overview

Product name	Anti-Fibulin 5 antibody [EPR4506]
Description	Rabbit monoclonal [EPR4506] to Fibulin 5
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Mouse, Human
Immunogen	Recombinant fragment corresponding to Human Fibulin 5 aa 250 to the C-terminus (internal sequence).
Positive control	WB: Human fetal lung, fetal kidney, fetal spleen and testis tissue lysates. Mouse heart, brain and kidney tissue lysates.
General notes	Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.

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 production

For more information [see here](#).

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

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and

species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR4506
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab109428** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 50 kDa.

Target

Function	Promotes adhesion of endothelial cells through interaction of integrins and the RGD motif. Could be a vascular ligand for integrin receptors and may play a role in vascular development and remodeling.
Tissue specificity	Expressed predominantly in heart, ovary, and colon but also in kidney, pancreas, testis, lung and placenta. Not detectable in brain, liver, thymus, prostate, or peripheral blood leukocytes.
Involvement in disease	Defects in FBLN5 are a cause of autosomal dominant cutis laxa (ADCL) [MIM:123700].

Hereditary cutis laxa refers to a heterogeneous group of connective tissue disorders characterized by cutaneous abnormalities and variable systemic manifestations. The most constant clinical feature is loose skin, sagging over the face and trunk. Hereditary cutis laxa is inherited in both autosomal dominant and autosomal recessive modes. Autosomal dominant cutis laxa is a relatively benign inherited and acquired connective tissue disorder.

Defects in FBLN5 are a cause of cutis laxa autosomal recessive type 1 (ARCL1) [MIM:219100].

Hereditary cutis laxa refers to a heterogeneous group of connective tissue disorders characterized by cutaneous abnormalities and variable systemic manifestations. The most constant clinical feature is loose skin, sagging over the face and trunk. Hereditary cutis laxa is inherited in both autosomal dominant and autosomal recessive modes. ARCL1 shows the most severe phenotype and has the poorest prognosis. In addition to the skin, internal organs enriched in elastic fibers, such as the lung and arteries, are affected.

Defects in FBLN5 are the cause of age-related macular degeneration type 3 (ARMD3) [MIM:608895]. ARMD is a multifactorial disease and the most common cause of irreversible vision loss in the developed world. In most patients, the disease is manifest as ophthalmoscopically visible yellowish accumulations of protein and lipid (known as drusen) that lie beneath the retinal pigment epithelium and within an elastin-containing structure known as Bruch membrane.

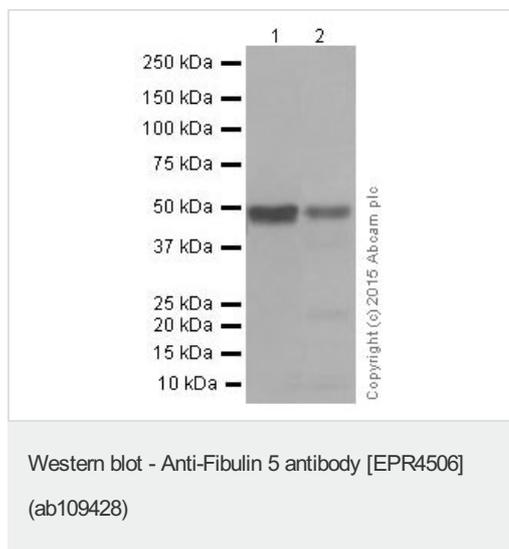
Sequence similarities

Belongs to the fibulin family.
Contains 6 EGF-like domains.

Cellular localization

Secreted.

Images



All lanes : Anti-Fibulin 5 antibody [EPR4506] (ab109428) at 1/1000 dilution (purified)

Lane 1 : Human fetal kidney tissue lysate

Lane 2 : Human fetal spleen tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

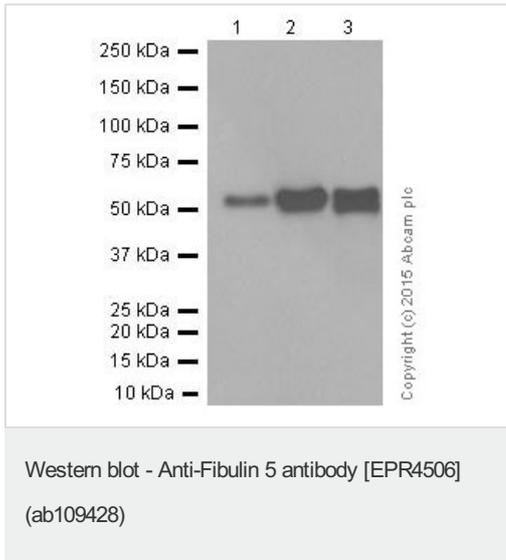
All lanes : HRP-conjugated anti-rabbit IgG, specific to the non-reduced form of IgG at 1/5000 dilution

Predicted band size: 50 kDa

Observed band size: 50-60 kDa

[why is the actual band size different from the predicted?](#)

Blocking and dilution buffer: 5% NFDm/TBST.



All lanes : Anti-Fibulin 5 antibody [EPR4506] (ab109428) at 1/1000 dilution (purified)

Lane 1 : Mouse brain tissue lysate

Lane 2 : Mouse heart tissue lysate

Lane 3 : Mouse kidney tissue lysate

Lysates/proteins at 20 µg per lane.

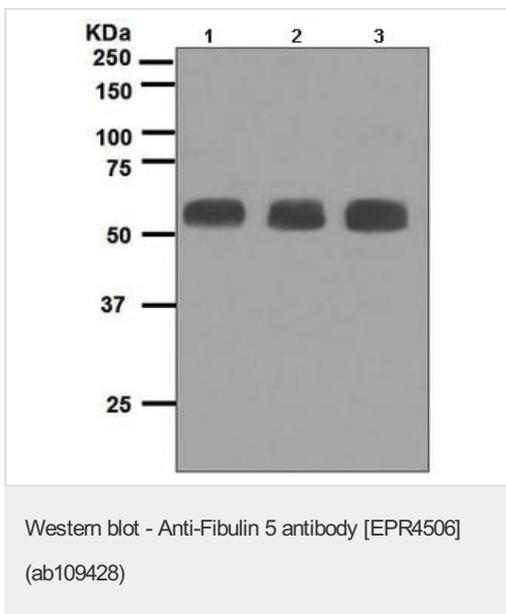
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/10000 dilution

Predicted band size: 50 kDa

Observed band size: 50-60 kDa [why is the actual band size different from the predicted?](#)

Blocking and dilution buffer: 5% NFDM/TBST.



All lanes : Anti-Fibulin 5 antibody [EPR4506] (ab109428) at 1/1000 dilution (unpurified)

Lane 1 : Fetal lung lysate

Lane 2 : Fetal kidney lysate

Lane 3 : Human testis lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 50 kDa

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Fibulin 5 antibody [EPR4506] (ab109428)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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