

## Product datasheet

# Anti-Periostin antibody [EPR19936] ab219057

Recombinant RabMAb

6 Images

### Overview

<b>Product name</b>	Anti-Periostin antibody [EPR19936]
<b>Description</b>	Rabbit monoclonal [EPR19936] to Periostin
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IP, WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment within Human Periostin aa 600 to the C-terminus. The exact sequence is proprietary. Database link: <a href="#">Q15063</a>
<b>Positive control</b>	WB: Human colon cancer, stomach, breast cancer, fetal heart and fetal kidney lysates; HeLa whole cell lysate. IHC-P: Human colon and lung cancer tissues. IP: Human fetal heart lysate.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications &amp; species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise<sup>™</sup> guarantee.</p> <p>In preparation for this, we have started to update the applications &amp; species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications &amp; species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee.</p>

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

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR19936
<b>Isotype</b>	IgG

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab219057** 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
IP		1/30.
WB		1/1000. Detects a band of approximately 93 kDa (predicted molecular weight: 93 kDa).
IHC-P		1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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## Target

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<b>Function</b>	Binds to heparin. Induces cell attachment and spreading and plays a role in cell adhesion. May play a role in extracellular matrix mineralization.
<b>Tissue specificity</b>	Widely expressed with highest levels in aorta, stomach, lower gastrointestinal tract, placenta, uterus and breast. Up-regulated in epithelial ovarian tumors. Not expressed in normal ovaries. Also highly expressed at the tumor periphery of lung carcinoma tissue but not within the tumor. Overexpressed in breast cancers.
<b>Sequence similarities</b>	Contains 1 EMI domain. Contains 4 FAS1 domains.

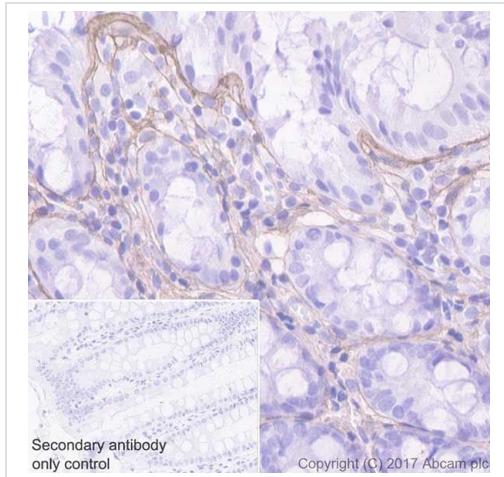
**Post-translational modifications**

Gamma-carboxyglutamate residues are formed by vitamin K dependent carboxylation. These residues are essential for the binding of calcium.

**Cellular localization**

Secreted > extracellular space > extracellular matrix.

**Images**

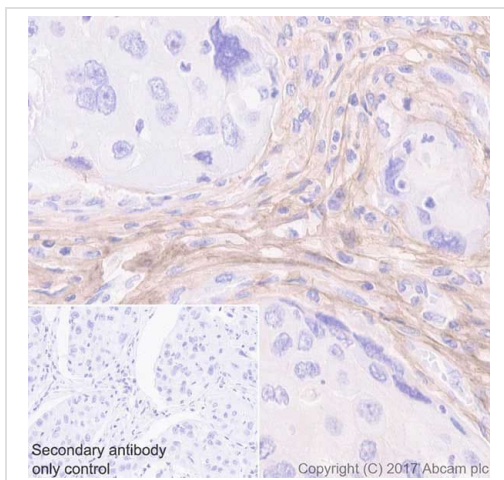


Immunohistochemical analysis of paraffin-embedded human colon tissue labeling Periostin with ab219057 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Extracellular matrix staining on human colon (PMID: 26023718). Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Periostin antibody [EPR19936] (ab219057)



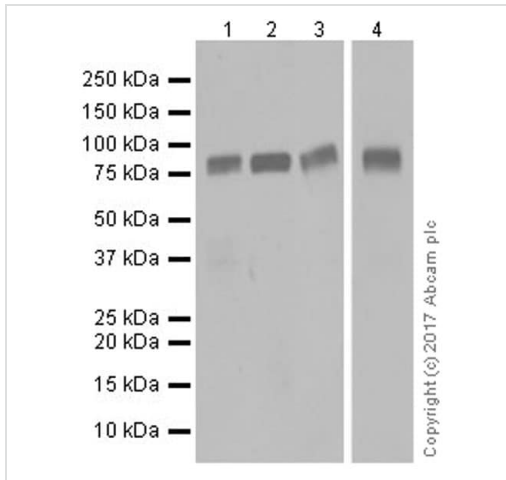
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue labeling Periostin with ab219057 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Extracellular matrix staining on human lung cancer (PMID: 24273600).

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Periostin antibody [EPR19936] (ab219057)



Western blot - Anti-Periostin antibody [EPR19936] (ab219057)

**All lanes** : Anti-Periostin antibody [EPR19936] (ab219057) at 1/1000 dilution

**Lane 1** : Human colon cancer lysate

**Lane 2** : Human stomach lysate

**Lane 3** : HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

**Lane 4** : Human breast cancer lysate

Lysates/proteins at 20 µg per lane.

**Secondary**

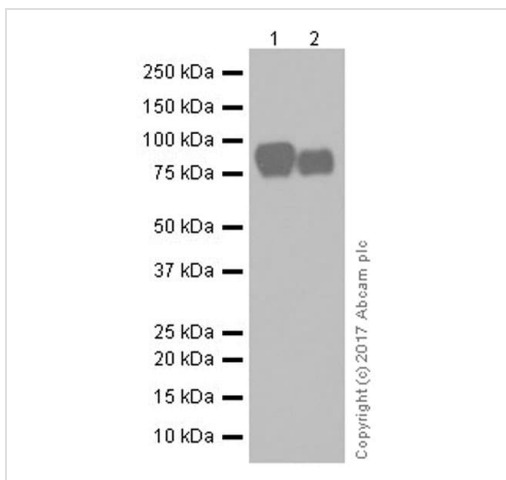
**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

**Predicted band size:** 93 kDa

**Observed band size:** 93 kDa

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time: Lane 1-3: 30 seconds; Lane 4: 5 seconds.



Western blot - Anti-Periostin antibody [EPR19936] (ab219057)

**All lanes** : Anti-Periostin antibody [EPR19936] (ab219057) at 1/1000 dilution

**Lane 1** : Human fetal heart lysate

**Lane 2** : Human fetal kidney lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

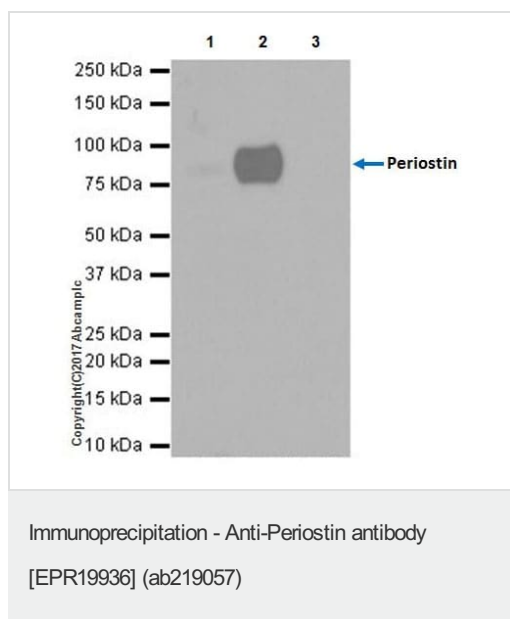
**All lanes** : Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/10000 dilution

**Predicted band size:** 93 kDa

**Observed band size:** 93 kDa

**Exposure time:** 30 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.



Periostin was immunoprecipitated from 0.35 mg of Human fetal heart lysate with ab219057 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab219057 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/10000 dilution.

Lane 1: Human fetal heart lysate 10 µg (Input).

Lane 2: ab219057 IP in Human fetal heart lysate.

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab219057 in Human fetal heart lysate.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 3 minutes.

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-Periostin antibody [EPR19936] (ab219057)

**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.

### **Terms and conditions**

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