

## Product datasheet

# Anti-Periostin antibody [EPR19934] ab219056

Recombinant RabMAb

[2 References](#) [6 Images](#)

### Overview

<b>Product name</b>	Anti-Periostin antibody [EPR19934]
<b>Description</b>	Rabbit monoclonal [EPR19934] to Periostin
<b>Host species</b>	Rabbit
<b>Specificity</b>	This antibody recognizes a different epitope of Periostin compared to <a href="#">ab219057</a> .
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Human fetal heart, fetal kidney and breast cancer lysates. IHC-P: Human colon and lung cancer tissues. IP: Human breast cancer 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>

### Properties

<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, 0.05% BSA, 40% Glycerol
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR19934

Isotype

IgG

## Applications

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### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab219056 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. 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.
IP		1/30.

## Target

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### Function

Binds to heparin. Induces cell attachment and spreading and plays a role in cell adhesion. May play a role in extracellular matrix mineralization.

### Tissue specificity

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.

### Sequence similarities

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.

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## Images

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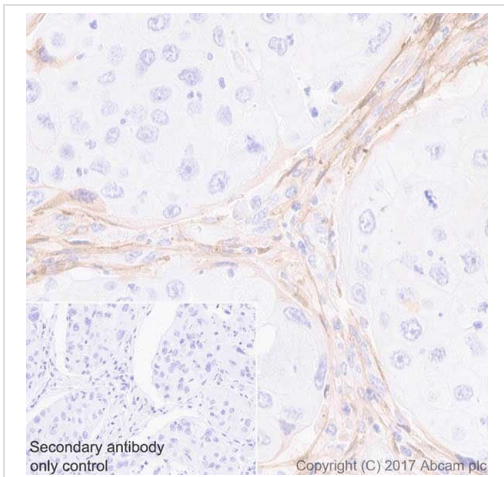
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Periostin antibody [EPR19934] (ab219056)

Immunohistochemical analysis of paraffin-embedded human colon tissue labeling Periostin with ab219056 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.



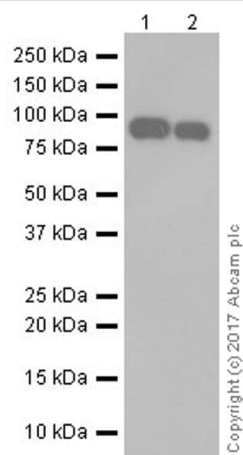
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Periostin antibody [EPR19934] (ab219056)

Immunohistochemical analysis of paraffin-embedded human lung cancer tissue labeling Periostin with ab219056 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.



Western blot - Anti-Periostin antibody [EPR19934] (ab219056)

**All lanes :** Anti-Periostin antibody [EPR19934] (ab219056) at 1/1000 dilution

**Lane 1 :** Human fetal heart tissue lysate

**Lane 2 :** Human fetal kidney tissue lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

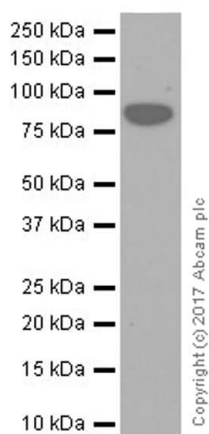
**All lanes :** Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/10000 dilution

**Predicted band size:** 93 kDa

**Observed band size:** 93 kDa

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-Periostin antibody [EPR19934] (ab219056)

Anti-Periostin antibody [EPR19934] (ab219056) at 1/1000 dilution + Human breast cancer lysate at 10 µg

**Secondary**

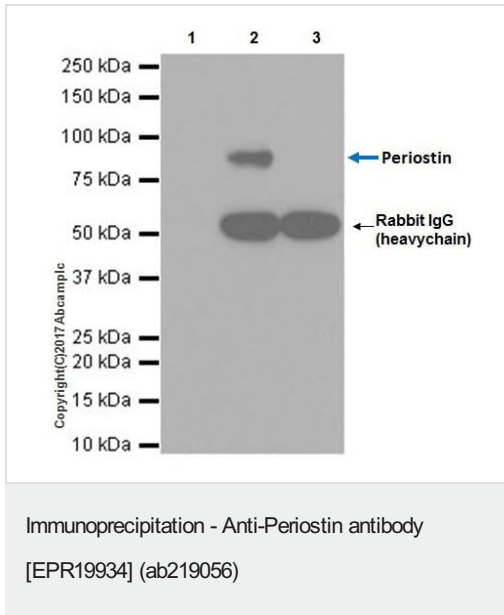
Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/50000 dilution

**Predicted band size:** 93 kDa

**Observed band size:** 93 kDa

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.



Periostin was immunoprecipitated from 0.35 mg of Human breast cancer lysate with ab219056 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab219056 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/10000 dilution.

Lane 1: Human breast cancer lysate 10 µg (Input).



Lane 2: ab219056 IP in Human breast cancer lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab219056 in Human breast cancer lysate.

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

Exposure time: 30 seconds.

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-Periostin antibody [EPR19934] (ab219056)

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

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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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