

## Product datasheet

### Anti-Periostin antibody ab79946

★★★★☆ [2 Abreviews](#) [10 References](#) [3 Images](#)

#### Overview

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<b>Product name</b>	Anti-Periostin antibody
<b>Description</b>	Rabbit polyclonal to Periostin
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Chicken, Cow 
<b>Immunogen</b>	Synthetic peptide corresponding to Human Periostin aa 250-350 conjugated to keyhole limpet haemocyanin. (Peptide available as <a href="#">ab90847</a> )
<b>Positive control</b>	This antibody gave a positive signal in WB in Human breast tumour tissue lysate. This antibody gave a positive result in IHC in the following FFPE tissue: Human breast fibroadenocarcinoma.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, customer reviews and Q&amp;As</p>

#### 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 or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

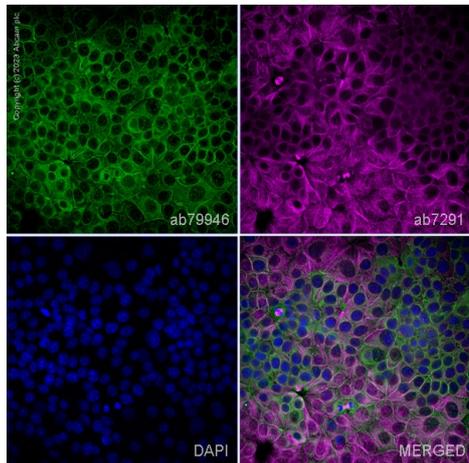
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab79946 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	★★★★★ (2)	Use a concentration of 0.1 µg/ml.
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 80, 86, 86, 93 kDa (predicted molecular weight: 93 kDa). This antibody was raised against an immunogen that is predicted to recognize isoforms 1,2,3 & 4 of Human Periostin.
ICC/IF		Use a concentration of 1 µg/ml.

## Target

<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.
<b>Post-translational modifications</b>	Gamma-carboxyglutamate residues are formed by vitamin K dependent carboxylation. These residues are essential for the binding of calcium.
<b>Cellular localization</b>	Secreted > extracellular space > extracellular matrix.

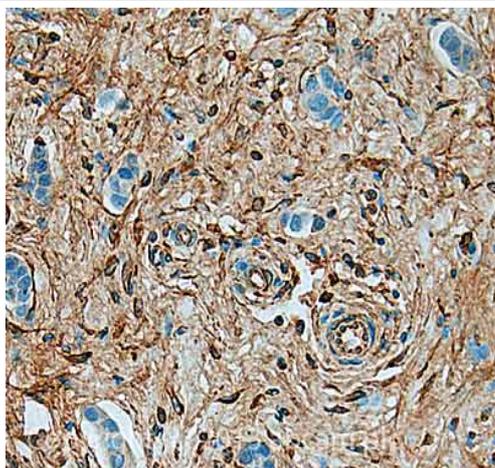
## Images



Immunocytochemistry/ Immunofluorescence - Anti-Periostin antibody (ab79946)

ab79946 staining Periostin in MCF7 cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% PBS-Tween for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab79946 at 5µg/ml and **ab7291**, Mouse monoclonal [DM1A] to alpha Tubulin - Loading Control. Cells were then incubated with **ab150081**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 488), pre-adsorbed at 1/1000 dilution (shown in green) and **ab150120**, Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 594), pre-adsorbed at 1/1000 dilution (shown in pseudocolour magenta). Nuclear DNA was labelled with DAPI (shown in blue).

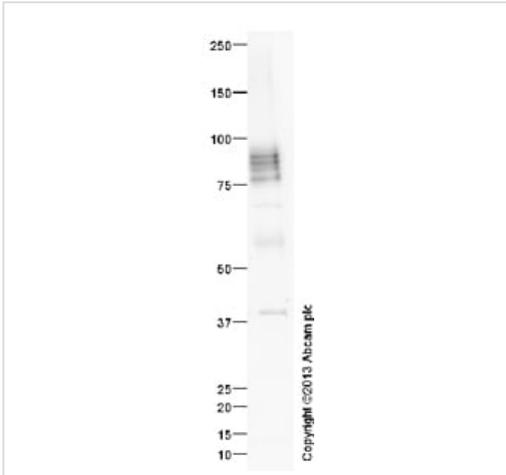
Image was acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal sections is shown.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Periostin antibody (ab79946)

IHC image of Periostin staining in Human breast fibroadenocarcinoma formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab79946, 0.1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Western blot - Anti-Periostin antibody (ab79946)

Anti-Periostin antibody (ab79946) at 1 µg/ml (blocked with 3% milk)  
+ Breast (Human) Cytoplasmic Lysate - tumor tissue ([ab30085](#)) at  
10 µg

### Secondary

Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at  
1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 93 kDa

**Observed band size:** 80,80,86,87,93 kDa

**Additional bands at:** 38 kDa. We are unsure as to the identity of  
these extra bands.

**Exposure time:** 20 minutes

This antibody was raised against an immunogen that is predicted to  
recognize isoforms 1,2,3 & 4 of Human Periostin. The predicted  
molecular weights of isoforms 1,2,3 & 4 are 93, kDa, 87 kDa, 87  
kDa and 83 kDa respectively.

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

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