

Product datasheet

Anti-Periostin antibody ab14041

★★★★★ [20 Abreviews](#) [193 References](#) [4 Images](#)

Overview

Product name	Anti-Periostin antibody
Description	Rabbit polyclonal to Periostin
Host species	Rabbit
Tested applications	Suitable for: ELISA, ICC/IF, IHC-Fr, IHC-P
Species reactivity	Reacts with: Mouse, Rat, Chicken, Human
Immunogen	Recombinant fragment (His-tag) corresponding to Human Periostin (N terminal).
Positive control	IHC-P: Human colon and normal skin tissues; Prostate cancer tissues. ICC/IF: HeLa cells.
General notes	<p>Lots # GR310924-1, GR296166-4, and GR296166-5 are sold in lyophilized form. To reconstitute, add 100 µL of deionized water and let the lyophilized antibody dissolve completely. The resulting concentration is 0.5 mg/mL. Slight turbidity may occur after reconstitution, which does not affect activity of the antibody. In this case clarify the solution by centrifugation.</p> <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&As</p>

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Constituents: PBS, 0.58% Sodium chloride
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab14041 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
ELISA		Use at an assay dependent concentration.
ICC/IF	★★★★★ (3)	Use at an assay dependent concentration.
IHC-Fr	★★★★★ (6)	Use at an assay dependent concentration. PubMed: 19079190
IHC-P	★★★★★ (8)	1/100 - 1/1000.

Target

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.

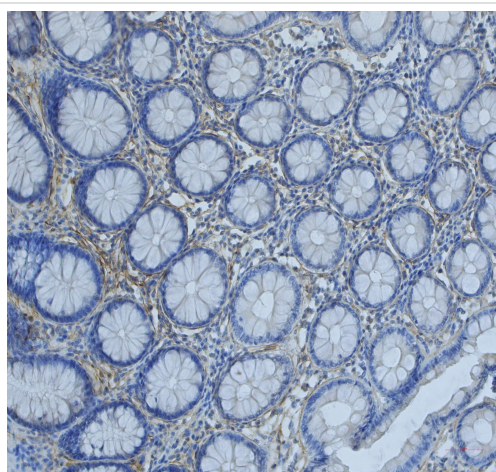
Post-translational modifications

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

Cellular localization

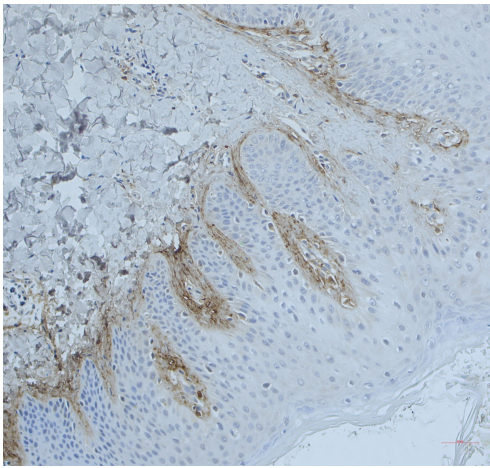
Secreted > extracellular space > extracellular matrix.

Images



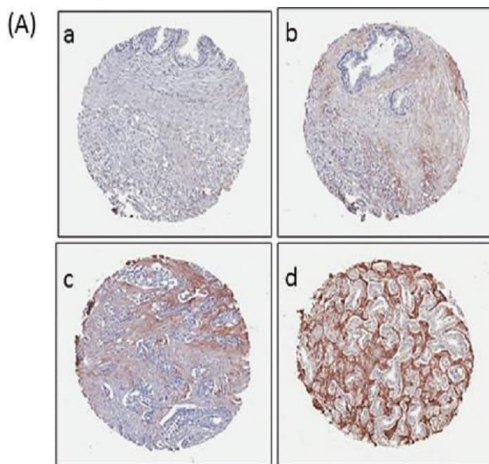
Immunohistochemistry analysis of formalin-fixed paraffin-embedded human colon tissue section labeling Periostin with ab14041.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Periostin antibody (ab14041)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Periostin antibody (ab14041)

Immunohistochemistry analysis of formalin-fixed paraffin-embedded human normal skin tissue section labeling Periostin with ab14041.

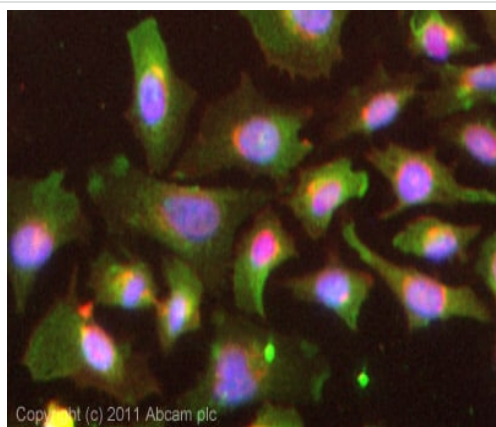


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Periostin antibody (ab14041)

Tian et al. PLoS One. 2015 Mar 17;10(3):e0121502. doi: 10.1371/journal.pone.0121502. eCollection 2015. Fig 1. Reproduced under the Creative Commons license <http://creativecommons.org/licenses/by/4.0/>

The periostin staining in prostate cancer and paired non-tumorous prostate tissues (TMA from JHU, 140 cases).

(A) The pathologists' criteria for IHC scoring. (a) 0, undetectable; (b) 1+, weak staining; (c) 2+, medium staining; (d) 3+, strong staining. Periostin was mainly stained in peritumoral stroma.



Immunocytochemistry/ Immunofluorescence - Anti-
Periostin antibody (ab14041)

ICC/IF image of ab14041 stained HeLa (Human epithelial cell line from cervix adenocarcinoma) cells.

The cells were fixed in 100% methanol (5 min) and then incubated in 1% BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilize the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab14041, 1/1000 dilution) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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

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