Product datasheet

Anti-Periostin antibody ab14041

★★★★★ 15 Abreviews  92 References  4 Images

Overview

Product name
Anti-Periostin antibody

Description
Rabbit polyclonal to Periostin

Host species
Rabbit

Tested applications
Suitable for: ICC/IF, IHC-Fr, IHC-P, WB, ELISA

Species reactivity
Reacts with: Mouse, Rat, Chicken, Human

Immunogen
Recombinant fragment (His-tag) corresponding to Human Periostin (N terminal).

General notes
Lots # GR310924-1, GR296166-4, and GR296166-5 are sold in lyophilised form. To reconstitute, add 100 µl of deionized water and let the lyophilised 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.

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: 0.134% PBS, 0.58% Sodium chloride

Purity
Immunogen affinity purified

Clonality
Polyclonal

Isotype
IgG

Applications

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.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>ICC/IF</td>
<td>★★★★☆☆☆☆</td>
<td>Use at an assay dependent concentration.</td>
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<tr>
<td>IHC-Fr</td>
<td>★★★★★★</td>
<td>Use at an assay dependent concentration. PubMed: 19079190</td>
</tr>
<tr>
<td>Application</td>
<td>Abreviews</td>
<td>Notes</td>
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<tr>
<td>IHC-P</td>
<td>★★★★★</td>
<td>1/100 - 1/1000.</td>
</tr>
<tr>
<td>WB</td>
<td>★★★★★</td>
<td>Use a concentration of 0.1 - 1 µg/ml. Predicted molecular weight: 100 kDa.</td>
</tr>
<tr>
<td>ELISA</td>
<td></td>
<td>1/100 - 1/1000.</td>
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**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**

**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**

ab14041 at a 1/100 dilution staining Periostin in mouse dermis tissue by Immunohistochemistry (frozen sections) incubated for 16 hours at 4°C. PFA fixed. Permeabilized using 0.1% Triton. Blocked using 20% serum for 1 hour at 4°C. Secondary used at 1/200 polyclonal Donkey anti-rabbit conjugated to Alexa Fluor 555 (red). Counterstain (blue) DAPI.

This image is courtesy of an anonymous abreview.
ab14041, staining Periostin in Human breast carcinoma tissue by Immunohistochemistry (Frozen sections).

Sections were acetone-fixed and blocked in normal serum. The sections were incubated with the primary antibody (for 1 hour at room temperature), followed by incubation with an HRP-conjugated secondary antibody for additional 30 minutes at room temperature. Diaminobenzidine (DAB) was used as a chromogen resulting in brown staining of positive cells. The nuclei were counterstained in using hematoxylin.

ICC/IF image of ab14041 stained HeLa cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise 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.
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Periostin antibody (ab14041)
This image is courtesy of an abreview by Tina Yuan

ab14041 staining Periostin in Mouse PDL tissue sections by Immunohistochemistry (PFA perfusion fixed frozen sections). Tissue samples were fixed by perfusion with formaldehyde, permeabilized with Triton-X, blocked with 5% serum for 60 minutes at 25°C and antigen retrieval was by heat mediation in citrate buffer. The sample was incubated with primary antibody (1/200) at 4°C for 16 hours. A Biotin-conjugated Goat anti-rabbit polyclonal (1/200) was used as the secondary antibody. HRP-streptavidin and DAB for detection

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