# Anti-Osteopontin antibody [53] ab69498

- **Abreviews:** 5
- **References:** 18
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## Overview

<table>
<thead>
<tr>
<th>Product name</th>
<th>Anti-Osteopontin antibody [53]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Mouse monoclonal [53] to Osteopontin</td>
</tr>
<tr>
<td>Host species</td>
<td>Mouse</td>
</tr>
<tr>
<td>Tested applications</td>
<td>Suitable for: IHC-Fr, WB, ELISA, IHC-P</td>
</tr>
<tr>
<td>Species reactivity</td>
<td>Reacts with: Human</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Recombinant full length protein corresponding to Human Osteopontin.</td>
</tr>
<tr>
<td>Positive control</td>
<td>Human breast cancer</td>
</tr>
<tr>
<td>General notes</td>
<td>This product was changed from ascites to tissue culture supernatant on 2nd March 2020. Lot numbers higher than GR3233119 are from tissue culture supernatant. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.</td>
</tr>
</tbody>
</table>

## Properties

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage instructions</td>
<td>Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.</td>
</tr>
<tr>
<td>Storage buffer</td>
<td>Preservative: 0.1% Sodium azide Constituent: PBS</td>
</tr>
<tr>
<td>Purity</td>
<td>Tissue culture supernatant</td>
</tr>
<tr>
<td>Clonality</td>
<td>Monoclonal</td>
</tr>
<tr>
<td>Clone number</td>
<td>53</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG2a</td>
</tr>
<tr>
<td>Light chain type</td>
<td>kappa</td>
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</tbody>
</table>

## Applications

Our Abpromise guarantee covers the use of ab69498 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Function
Binds tightly to hydroxyapatite. Appears to form an integral part of the mineralized matrix. Probably important to cell-matrix interaction. Acts as a cytokine involved in enhancing production of interferon-gamma and interleukin-12 and reducing production of interleukin-10 and is essential in the pathway that leads to type I immunity.

Tissue specificity
Bone. Found in plasma.

Sequence similarities
Belongs to the osteopontin family.

Post-translational modifications
Extensively phosphorylated on clustered serine residues. N- and O-glycosylated. Phosphorylation sites are present in the extracellular medium.

Cellular localization
Secreted.

Images

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHC-Fr</td>
<td><img src="https://i.imgur.com/5.png" alt="Rating" /></td>
<td>Use at an assay dependent concentration.</td>
</tr>
<tr>
<td>WB</td>
<td><img src="https://i.imgur.com/5.png" alt="Rating" /></td>
<td>Use at an assay dependent concentration. Predicted molecular weight: 33 kDa.</td>
</tr>
<tr>
<td>ELISA</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
</tr>
<tr>
<td>IHC-P</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
</tr>
</tbody>
</table>

Target

Function
Binds tightly to hydroxyapatite. Appears to form an integral part of the mineralized matrix. Probably important to cell-matrix interaction. Acts as a cytokine involved in enhancing production of interferon-gamma and interleukin-12 and reducing production of interleukin-10 and is essential in the pathway that leads to type I immunity.

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Images

Western blot - Anti-Osteopontin antibody [53] (ab69498)

All lanes: Anti-Osteopontin antibody [53] (ab69498) at 5 µg/ml

Lane 1: MDA-MB-435 cell lysate at 40 µg
Lane 2: Conditioned medium from MDA-MB-435 cells containing secreted Osteopontin at 3.8 µg
Lane 3: Conditioned medium from MDA-MB-435 cells containing recombinant protein at 0.05 µg

Secondary

All lanes: HRP conjugated goat anti-mouse

Developed using the ECL technique.

Predicted band size: 33 kDa

This image was generated using the ascites version of the product.
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Osteopontin antibody [53] (ab69498)

ab69498, at a 2µg/ml, staining human Osteopontin in Breast cancer, by Immunohistochemistry, Formalin fixed Paraffin embedded tissue.

This image was generated using the ascites version of the product.

Immunohistochemistry (Frozen sections) - Anti-Osteopontin antibody [53] (ab69498)

This image is courtesy of an anonymous Abreview.

ab69498 staining Osteopontin in Human cancellous bone tissue sections by Immunohistochemistry (IHC-Fr - frozen sections). Tissue was fixed with acetone and blocked with 0.25% Casein for 10 minutes at 23°C. Samples were incubated with primary antibody (1/50 in 10% human serum in TBS) for 1 hour at 23°C. An Alexa Fluor® 555-conjugated Goat anti-mouse IgG2a polyclonal (1/500) was used as the secondary antibody.

This image was generated using the ascites version of the product.

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