## Overview

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>Anti-Annexin V/ANXA5 antibody [EPR3979]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Rabbit monoclonal [EPR3979] to Annexin V/ANXA5</td>
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<tr>
<td><strong>Host species</strong></td>
<td>Rabbit</td>
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</tbody>
</table>
| **Tested applications** | Suitable for: WB, IHC-P, ICC  
Unsuitable for: Flow Cyt or IP |
| **Species reactivity** | Reacts with: Human |
| **Immunogen** | Synthetic peptide within Human Annexin V/ANXA5 aa 1-100. The exact sequence is proprietary. |
| **Positive control** | HeLa, JAR, and fetal kidney lysates; Human gastric tissue |
| **General notes** | This product was previously labelled as Annexin V |

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

This product is a recombinant rabbit monoclonal antibody.

### Properties

<table>
<thead>
<tr>
<th><strong>Form</strong></th>
<th>Liquid</th>
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<tbody>
<tr>
<td><strong>Storage instructions</strong></td>
<td>Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.</td>
</tr>
</tbody>
</table>
| **Storage buffer** | pH: 7.20  
Preservative: 0.05% Sodium azide  
Constituents: 0.1% BSA, 40% Glycerol, 9.85% Tris glycine, 50% PBS |
| **Purity** | Protein A purified |
Clonality: Monoclonal
Clone number: EPR3979
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab108321 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>WB</td>
<td></td>
<td>1/1000 - 1/10000. Predicted molecular weight: 36 kDa.</td>
</tr>
<tr>
<td>IHC-P</td>
<td>★★★★★</td>
<td>1/100 - 1/250. Perform antigen retrieval before commencing with IHC staining protocol</td>
</tr>
<tr>
<td>ICC</td>
<td></td>
<td>1/100 - 1/250.</td>
</tr>
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</table>

Application notes: Is unsuitable for Flow Cyt or IP.

Target

Function: This protein is an anticoagulant protein that acts as an indirect inhibitor of the thromboplastin-specific complex, which is involved in the blood coagulation cascade.

Involvement in disease: Pregnancy loss, recurrent, 3

Sequence similarities: Belongs to the annexin family. Contains 4 annexin repeats.

Domain: The [IL]-x-C-x-x-[DE] motif is a proposed target motif for cysteine S-nitrosylation mediated by the iNOS-S100A8/A9 transnitrosylase complex. A pair of annexin repeats may form one binding site for calcium and phospholipid.

Post-translational modifications: S-nitrosylation is induced by interferon-gamma and oxidatively-modified low-density lipoprotein (LDL(ox)) possibly implicating the iNOS-S100A8/9 transnitrosylase complex.

Images
Lane 1: Wild-type HAP1 whole cell lysate (20 µg)
Lane 2: Annexin V/ANXA5 knockout HAP1 whole cell lysate (20 µg)
Lane 3: HeLa whole cell lysate (20 µg)

Lanes 1 - 3: Merged signal (red and green). Green - ab108321 observed at 35 kDa. Red - loading control, ab18058, observed at 130 kDa.

ab108321 was shown to specifically react with Annexin V/ANXA5 in wild-type cells as signal was lost in Annexin V/ANXA5 knockout cells. Wild-type and Annexin V/ANXA5 knockout samples were subjected to SDS-PAGE. Ab108321 and ab18058 (Mouse anti-Vinculin loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ab216773 and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ab216776 secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.

All lanes: Anti-Annexin V/ANXA5 antibody [EPR3979] (ab108321) at 1/1000 dilution

Lane 1: HeLa cell lysate
Lane 2: JAR cell lysate
Lane 3: fetal kidney lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 36 kDa
Immunohistochemical analysis of Annexin V/ANXA5 in paraffin embedded Human gastric tissue, using ab108321 at a 1/100 dilution.

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

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