Product Datasheet

Angiopoietin-1 Antibody
NB600-629

Unit Size: 0.2 ml
Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

Publications: 2
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Updated 2/21/2017 v.20.1
# Angiopoietin-1 Antibody

## Product Information

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unit Size</strong></td>
<td>0.2 ml</td>
</tr>
<tr>
<td><strong>Concentration</strong></td>
<td>This product is unpurified. The exact concentration of antibody is not quantifiable.</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.</td>
</tr>
<tr>
<td><strong>Clonality</strong></td>
<td>Polyclonal</td>
</tr>
<tr>
<td><strong>Preservative</strong></td>
<td>0.01% Sodium Azide</td>
</tr>
<tr>
<td><strong>Purity</strong></td>
<td>Unpurified</td>
</tr>
<tr>
<td><strong>Buffer</strong></td>
<td>0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2</td>
</tr>
</tbody>
</table>

## Product Description

**Host**
Rabbit

**Gene ID**
284

**Gene Symbol**
ANGPT1

**Species**
Human, Mouse

**Reactivity Notes**
Partially cross reactivity is noted with human angiopoietin.

**Specificity/Sensitivity**
This antiserum is directed against mouse angiopoietin 1 and shows no reactivity with mouse angiopoietin 2. A 57 kDa band is detected when assayed by immunoblot. This reagent cross-reacts with human angiopoietin 1. Both Ang-1 and Ang-2 proteins have predicted molecular weights of approximately 57 kDa and appear on western blots close to their predicted molecular weights. In some instances additional bands may be seen at approximately 75 kDa which represent highly glycosylated forms of the protein that migrate at a higher apparent molecular weight.

**Immunogen**
This whole rabbit serum was prepared by repeated immunizations with a synthetic peptide N-Q-R-R-N-P-E-N-G-G-R-R-Y-N-R-I-Q-H-G-Q corresponding to a region (aa 21-40) near the N-terminus of mouse angiopoietin 1 protein conjugated to KLH using maleimide. A residue of cysteine was added to the amino terminal end to facilitate coupling.

## Product Application Details

**Applications**
Western Blot, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin

**Recommended Dilutions**
Western Blot 1:500-1:2000, ELISA 1:5000-1:25000, Immunohistochemistry 1:200-1:800, Immunohistochemistry-Paraffin 1:200-1:800

**Application Notes**
Suitable for western blotting, Immunohistochemistry and other antibody based assays. A 1:500 dilution is recommended for western blotting. The reaction of this antiserum directly with cell supernatants may result in high background. Due to reactivity of components in the serum. This can be alleviated by first immunoprecipitating the antibody:antigen complex and then detecting the antigen. This method results in a very clean and strong signal. Both Ang-1 and Ang-2 proteins have predicted molecular weights of approximately 57 kDa and appear on western blots close to their predicted molecular weights. In some instances additional bands may be seen at approximately 75 kDa which represent highly glycosylated forms of the protein that migrate at a higher apparent molecular weight.
Western Blot: Angiopoietin-1 Antibody [NB600-629] - Used at a 1:500 dilution to detect mouse Ang-1 by western blot against supernatants of mouse angiopoietin-expressing endothelial cells. Lane 1 - wt endothelial cells. Lane 2 - mouse Ang-1 (clone 1-8) expressing cells. Lane 3 - mouse Ang-1 (clone 1-15) expressing cells. Lane 4 - mouse Ang-2 (clone 2-9) expressing cells. Approximately 20 ug of each lysate was used for 10% SDS-PAGE. Immunoprecipitation preceded the reaction with primary antibody at room temperature for 1 h. After subsequent washing, a 1:5,000 dilution of HRP conjugated Gt-a-Rabbit IgG preceded color development.

Immunohistochemistry: Angiopoietin-1 Antibody [NB600-629] - Diluted to 1:500 to detect ANG1 in human lung tissue. Tissue was formalin fixed and paraffin embedded. No pre-treatment of sample was required. The image shows the localization of antibody as the precipitated red signal, with a hematoxylin purple nuclear counter stain.

Publications


Limited

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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