Product Datasheet

Collagen IV alpha 1 Antibody
NB120-6586

Unit Size: 0.1 mg

Store at 4C short term. For extended storage, add an equal volume of glycerol, aliquot and store at -20C or below. Avoid repeated freeze-thaw cycles.

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Updated 10/10/2018 v.20.1

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**NB120-6586**  
Collagen IV alpha 1 Antibody

### Product Information

<table>
<thead>
<tr>
<th><strong>Unit Size</strong></th>
<th>0.1 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Concentration</strong></td>
<td>Please see the vial label for concentration. If unlisted please contact technical services.</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>Store at 4°C short term. For extended storage, add an equal volume of glycerol, aliquot and store at -20°C or below. Avoid repeated 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>Isotype</strong></td>
<td>IgG</td>
</tr>
<tr>
<td><strong>Purity</strong></td>
<td>Immunogen affinity purified</td>
</tr>
<tr>
<td><strong>Buffer</strong></td>
<td>0.125 M Sodium Borate, 0.075 M Sodium Chloride, 0.005 M EDTA, pH 8.0</td>
</tr>
</tbody>
</table>

### Product Description

**Host**  
Rabbit

**Gene ID**  
1282

**Gene Symbol**  
COL4A1

**Species**  
Human, Mouse, Rat, Bovine, Mammal

**Reactivity Notes**  
This antibody is expected to react with Type IV collagens from most mammalian species. Rat reactivity reported in scientific literature (PMID: 16774905)

**Specificity/Sensitivity**  
Negligible cross-reactivity with Type I, II, III, V or VI collagens. Non-specific cross reaction of anti-collagen antibodies with other human serum proteins or non-collagen extracellular matrix proteins is negligible.

**Immunogen**  
Collagen Type IV from human and bovine placenta. Uniprot ID P02462

### Product Application Details

**Applications**  
Western Blot, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation

**Recommended Dilutions**  

**Application Notes**  
Anti-Collagen antibodies have been used for indirect trapping ELISA for quantitation of antigen in serum using a standard curve, for immunoprecipitation and for native (non-denaturing, non-dissociating) PAGE and western blotting for highly sensitive qualitative analysis. Greatly diminished reactivity and selectivity of the antibody will result if denaturing and reducing conditions are used for SDS-PAGE and immunoblotting. Use in frozen sections reported in scientific literature (PMID 28672034). Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID : 29162797).
Immunohistochemistry-Paraffin: Collagen IV alpha 1 Antibody [NB120-6586] - Analysis using the Biotin conjugate of NB120-6586. Staining of Collagen IV alpha 1 (red) and Insulin (green) in mouse pancreas. Image from verified customer review.


Immunohistochemistry-Paraffin: Collagen IV alpha 1 Antibody [NB120-6586] - Used at a dilution of 1:400, 45 min RT showed strong staining in FFPE sections of human kidney (Left) with strong red staining observed in glomeruli and liver (Right) with strong staining in sinusoids. Staining for both tissues was consistent with a basement membrane distribution. Slides were steamed in 0.01 M sodium citrate buffer, pH 6.0 at 99-100C - 20 minutes for antigen retrieval.

Immunohistochemistry-Paraffin: Collagen IV alpha 1 Antibody [NB120-6586] - Analysis of Collagen IV alpha 1 in paraffin embedded mouse cervix tissue using anti-Collagen IV alpha 1 antibody. Image from verified customer review.
**Publications**


Details:
This citation used the Biotin form of this antibody


Root-Bernstein R. Rethinking Molecular Mimicry in Rheumatic Heart Disease and Autoimmune Myocarditis: Laminin, Collagen IV, CAR, and B1AR as Initial Targets of Disease. Pediatric Cardiology 2014 Aug 19 [PMID: 25191648]


Limitations
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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

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