## Anti-COL8A1 antibody ab236653

### Overview

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>Anti-COL8A1 antibody</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Rabbit polyclonal to COL8A1</td>
</tr>
<tr>
<td><strong>Host species</strong></td>
<td>Rabbit</td>
</tr>
<tr>
<td><strong>Tested applications</strong></td>
<td>Suitable for: ICC/IF, WB</td>
</tr>
<tr>
<td><strong>Species reactivity</strong></td>
<td>Reacts with: Mouse, Human</td>
</tr>
<tr>
<td><strong>Immunogen</strong></td>
<td>Recombinant fragment corresponding to Human COL8A1 aa 572-744.</td>
</tr>
</tbody>
</table>
| **Sequence**           | AVMPPTPPQGEYLPDMGLIDGVKPPHAYGAKKGK  
                          | NGGPAYEMPAFTAELTAPFPVGAPVKFNKLLYNQRQNYNPQTGI TCEVPG  
                          | VYYFAYHVHCKG  
                          | GNVWVALFKNNEPVIMTYDEYKKGFLDQASGSAVLLL  
                          | RPGDRVFLQMPSEQAAGLYAGQYVHSSFSGYLLYPM |
| **Database link**      | P27658 |

### Positive control

WB: HepG2 and HeLa whole cell lysate (ab150035); Mouse heart, liver, lung, kidney, brain and skeletal muscle lysates. ICC/IF: U-251 MG cells.

### Properties

<table>
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<tr>
<th><strong>Form</strong></th>
<th>Liquid</th>
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</thead>
<tbody>
<tr>
<td><strong>Storage instructions</strong></td>
<td>Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.</td>
</tr>
</tbody>
</table>
| **Storage buffer** | pH: 7.40  
                          | Preservative: 0.03% Proclin  
                          | Constituents: 50% Glycerol, PBS |
| **Purity**     | Protein G purified |
| **Purification notes** | Purity >95% |
| **Clonality**  | Polyclonal |

[Run BLAST with](#) **P27658**
Isotype

IgG

Applications

Our Abpromise guarantee covers the use of ab236653 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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<tbody>
<tr>
<td>ICC/IF</td>
<td>1/50 - 1/500.</td>
<td></td>
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</table>

Target

Function

Macromolecular component of the subendothelium. Major component of the Descemet's membrane (basement membrane) of corneal endothelial cells. Also component of the endothelia of blood vessels. Necessary for migration and proliferation of vascular smooth muscle cells and thus, has a potential role in the maintenance of vessel wall integrity and structure, in particular in artherogenesis.

Vastatin, the C-terminal fragment comprising the NC1 domain, inhibits aortic endothelial cell proliferation and causes cell apoptosis.

Tissue specificity

Expressed primarily in the subendothelium of large blood vessels. Also expressed in arterioles and venules in muscle, heart, kidney, spleen, umbilical cord, liver and lung and is also found in connective tissue layers around hair follicles, around nerve bundles in muscle, in the dura of the optic nerve, in cornea and sclera, and in the perichondrium of cartilaginous tissues. In the kidney, expressed in mesangial cells, glomerular endothelial cells, and tubular epithelial cells. Also expressed in mast cells, and in astrocytes during the repair process. Expressed in Descemet's membrane. Specifically expressed in peritoneal fibroblasts and mesothelial cells.

Sequence similarities

Contains 1 C1q domain.

Post-translational modifications

Prolines at the third position of the tripeptide repeating unit (G-X-Y) are hydroxylated in some or all of the chains.

Proteolytically cleaved by neutrophil elastase, in vitro. Proteolytic processing produces the C-terminal NC1 domain fragment, vastatin.

Cellular localization

Secreted > extracellular space > extracellular matrix > basement membrane.

Images
All lanes: Anti-COL8A1 antibody (ab236653) at 1/2000 dilution

Lane 1: HepG2 (human liver hepatocellular carcinoma cell line) whole cell lysate
Lane 2: HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate
Lane 3: Mouse heart lysate
Lane 4: Mouse liver lysate
Lane 5: Mouse lung lysate
Lane 6: Mouse kidney lysate
Lane 7: Mouse brain lysate
Lane 8: Mouse skeletal muscle lysate

Secondary
All lanes: Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 73 kDa

U-251 MG (human brain glioma cell line) cells stained for COL8A1 (green) using ab236653 at 1/100 dilution in ICC/IF, followed by Alexa Fluor 488® conjugated Goat Anti-Rabbit IgG (H+L).

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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