**Product datasheet**

**Anti-Collagen IV alpha 1 antibody ab189408**

**Overview**

**Product name**  
Anti-Collagen IV alpha 1 antibody

**Description**  
Rabbit polyclonal to Collagen IV alpha 1

**Host species**  
Rabbit

**Specificity**  
ab189408 recognizes extracellular - basement membranes.

**Tested applications**  
Suitable for: IHC-P, WB, IHC-Fr, ICC/IF

**Species reactivity**  
Reacts with: Human

**Predicted to work with**: Rat, Cow, Pig

**Immunogen**  
Full length native protein (purified) corresponding to Human Collagen IV alpha 1. Isolated from Human placenta  
Database link: [P02462](https://www.uniprot.org/uniprot/P02462)

**Positive control**  
Human kidney tissue, glomerulus.

**Properties**

**Form**  
Liquid

**Storage instructions**  

**Storage buffer**  
Preservative: 0.09% Sodium azide

**Purity**  
Whole antiserum

**Clonality**  
Polyclonal

**Isotype**  
IgG

**Applications**

Our Abpromise guarantee covers the use of **ab189408** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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1 References 1 Image
### Target

#### Relevance

Type IV collagen is the major structural component of glomerular basement membranes (GBM), forming a ‘chicken-wire’ meshwork together with laminins, proteoglycans and entactin/nidogen. Arresten, comprising the C-terminal NC1 domain, inhibits angiogenesis and tumor formation. The C-terminal half is found to possess the anti-angiogenic activity. Specifically inhibits endothelial cell proliferation, migration and tube formation. Inhibits expression of hypoxia-inducible factor 1alpha and ERK1/2 and p38 MAPK activation. Ligand for alpha1/beta1 integrin.

#### Cellular localization

Secreted > extracellular space > extracellular matrix > basement membrane.

### Images

- **Immunohistochemistry of formalin-fixed, paraffin-embedded Human kidney, glomerulus, labeling Collagen IV alpha 1 with ab189408 at a 1/75 dilution.**

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

Our Abpromise to you: Quality guaranteed and expert technical support

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<tr>
<td>IHC-P</td>
<td>1/75 - 1/100. Sections should be pretreated with 1 mg/ml pepsin in 0.01 N HCl for 30 minutes at room temperature.</td>
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<tr>
<td>WB</td>
<td>1/100 - 1/1000. Predicted molecular weight: 161 kDa.</td>
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<tr>
<td>IHC-Fr</td>
<td>1/25 - 1/100. Fix in methanol, aceton or 1% paraformaldehyde. A PBS buffer containing 0.1 mM CaCl$_2$ and 0.1 mM MgCl$_2$ is recommended.</td>
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<tr>
<td>ICC/IF</td>
<td>Use at an assay dependent concentration. Methanol fixation recommended.</td>
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Response to your inquiry within 24 hours

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