

Datasheet for ABIN7212370  
**anti-Collagen IV antibody**

5 Images

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## Overview

Quantity:	100 µL
Target:	Collagen IV (COL4)
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Collagen IV antibody is un-conjugated
Application:	Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF)

## Product Details

Purpose:	Collagen IV Mouse Monoclonal Antibody (8E5)
Immunogen:	Synthetic Peptide of Collagen IV
Clone:	8E5
Isotype:	IgG1
Specificity:	The antibody detects endogenous Collagen IV protein.
Purification:	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen

## Target Details

Target:	Collagen IV (COL4)
Alternative Name:	Collagen IV ( <a href="#">COL4 Products</a> )

## Target Details

**Background:** Mouse Anti-Collagen IV Mouse Monoclonal Antibody (8E5), Collagen alpha-1(IV) chain [Cleaved into: Arresten], COL4A1 (collagen type IV alpha 1 chain) encodes a type IV collagen alpha protein. Type IV collagen proteins are integral components of basement membranes. COL4A1 shares a bidirectional promoter with a paralogous gene on the opposite strand. The protein consists of an amino-terminal 7S domain, a triple-helix forming collagenous domain, and a carboxy-terminal non-collagenous domain. It functions as part of a heterotrimer and interacts with other extracellular matrix components such as perlecan, proteoglycans, and laminins. In addition, proteolytic cleavage of the non-collagenous carboxy-terminal domain results in a biologically active fragment known as arresten, which has anti-angiogenic and tumor suppressor properties. Mutations in COL4A1 cause porencephaly, cerebrovascular disease, and renal and muscular defects. Alternative splicing results in multiple transcript variants., Collagen alpha-1(IV) chain [Cleaved into: Arresten]

**Molecular Weight:** observed band 161kDa

**Gene ID:** 1282

## Application Details

**Application Notes:** Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: IHC-P (1:50-1:200).

**Comment:** Primary Antibody

**Restrictions:** For Research Use only

## Handling

**Format:** Liquid

**Concentration:** 1 mg/mL

**Buffer:** PBS, pH 7.4, containing 0.02 % Sodium Azide as preservative and 50 % Glycerol.

**Preservative:** Sodium azide

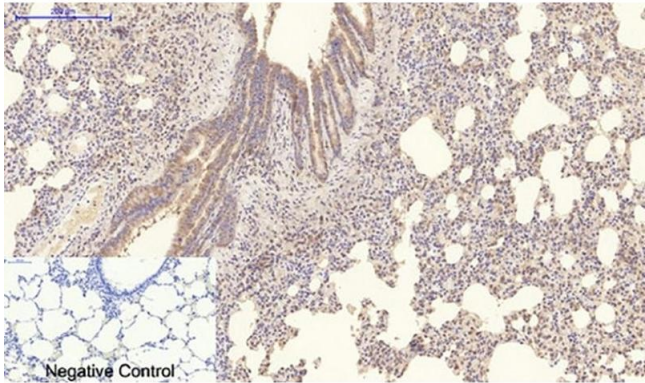
**Precaution of Use:** This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

**Storage:** -20 °C

**Storage Comment:** Stable for one year at -20°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid

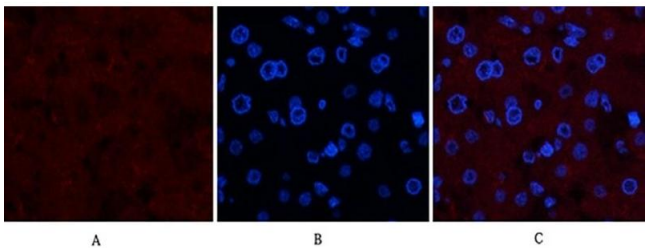
repeated freezing and thawing.

Images



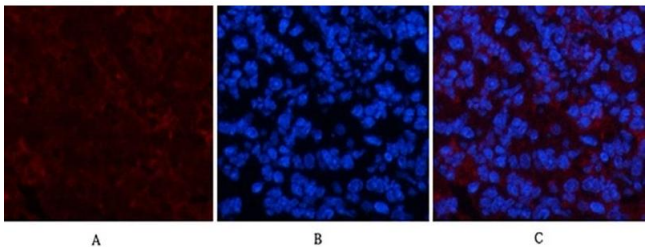
Immunohistochemistry

**Image 1.** Immunohistochemical analysis of paraffin-embedded rat lung tissue. 1, Collagen IV Mouse Monoclonal Antibody (8E5) was diluted at 1:200 (4 °C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98 °C, 20 min). 3, secondary antibody was diluted at 1:200 (room temperature, 30 min). Negative control was used by secondary antibody only.



Immunofluorescence

**Image 2.** Immunofluorescence analysis of human liver tissue. 1, Collagen IV Mouse Monoclonal Antibody (8E5) (red) was diluted at 1:200 (4 °C, overnight). 2, Cy3 Labeled secondary antibody was diluted at 1:300 (room temperature, 50 min). 3, Picture B: DAPI (blue) 10 min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B.



Immunofluorescence

**Image 3.** Immunofluorescence analysis of mouse spleen tissue. 1, Collagen IV Mouse Monoclonal Antibody (8E5) (red) was diluted at 1:200 (4 °C, overnight). 2, Cy3 Labeled secondary antibody was diluted at 1:300 (room temperature, 50 min). 3, Picture B: DAPI (blue) 10 min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN7212370.