

Anti-Collagen, Type IV Antibody (Monoclonal, COL-94)
Catalog # ABO10423**Specification****Anti-Collagen, Type IV Antibody (Monoclonal, COL-94) - Product Information**

Application	IHC-P, IHC-F
Primary Accession	P02462
Host	Mouse
Isotype	Mouse IgG1
Reactivity	Human
Clonality	Monoclonal
Format	Lyophilized

Description

Mouse IgG monoclonal antibody for Collagen, Type IV, collagen, type IV, alpha-1; collagen, type IV, alpha 3 (Goodpasture antigen); collagen, type IV, alpha 4; collagen, type IV, alpha 5; collagen, type IV, alpha 6 (COL4A1; COL4A3; COL4A4; COL4A5; COL4A6) detection. Tested with IHC-P, IHC-F in Human. No cross reactivity with other proteins.

Reconstitution

Add 1ml of PBS buffer will yield a concentration of 100ug/ml.

Anti-Collagen, Type IV Antibody (Monoclonal, COL-94) - Additional Information

Gene ID 1282

Other Names

Collagen alpha-1(IV) chain, Arresten, COL4A1

Calculated MW

160615 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat

Immunohistochemistry(Frozen Section), 0.5-1 µg/ml, Human

Subcellular Localization

Secreted, extracellular space, extracellular matrix, basement membrane.

Tissue Specificity

Highly expressed in placenta. .

Protein Name

Collagen alpha-1(IV) chain; Collagen alpha-3(IV) chain; Collagen alpha-4(IV) chain; Collagen alpha-5(IV) chain; Collagen alpha-6(IV) chain

Contents

Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN₃ as preservative.

Immunogen

Human collagen type IV.

Purification

Ascites

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the type IV collagen family.

Anti-Collagen, Type IV Antibody (Monoclonal, COL-94) - Protein Information

Name COL4A1 ([HGNC:2202](#))

Function

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.

Cellular Location

Secreted, extracellular space, extracellular matrix, basement membrane
{ECO:0000250|UniProtKB:P02463}

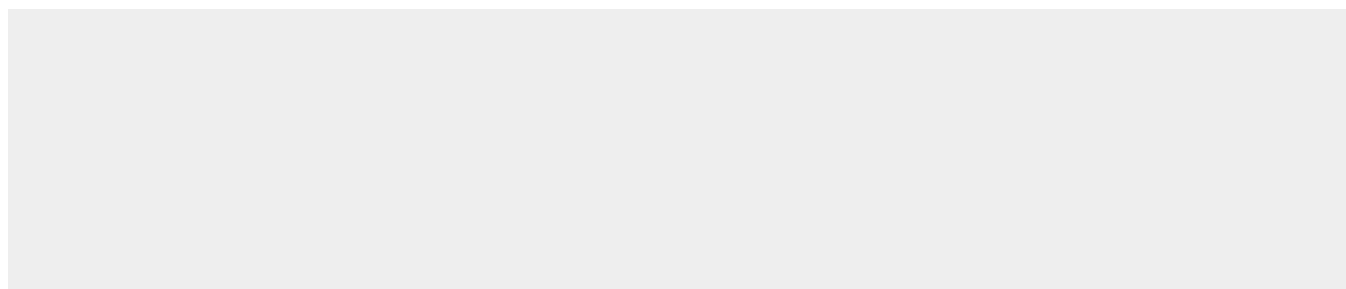
Tissue Location

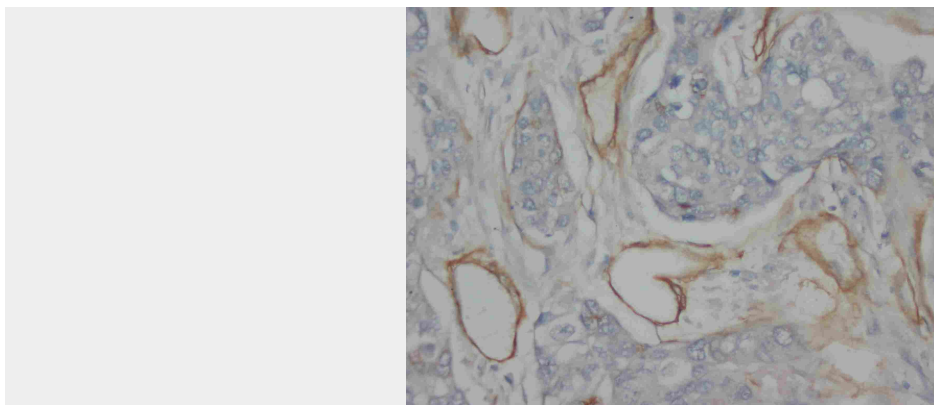
Highly expressed in placenta.

Anti-Collagen, Type IV Antibody (Monoclonal, COL-94) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Collagen, Type IV Antibody (Monoclonal, COL-94) - Images



Anti-Collagen, Type IV antibody (monoclonal), ABO10423, IHC(P)IHC(P): Human Mammary Cancer Tissue

Anti-Collagen, Type IV Antibody (Monoclonal, COL-94) - Background

Collagen IV is comprised of a third chain(alpha-3) together with the 2 classical ones, alpha-1 and alpha-2. COL4A3 gene is localized to 2q36-q37 by analysis of somatic cell hybrids and by in situ hybridization. The alpha-3 chain of type IV collagen induces autoimmune Goodpasture syndrome. Mutations in the COL4A4 and COL4A3 genes cause familial benign hematuria.