

Anti-Collagen, Type IV Antibody (Monoclonal, COL-94)
Catalog # ABO10423

Specification

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

Application	IHC
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

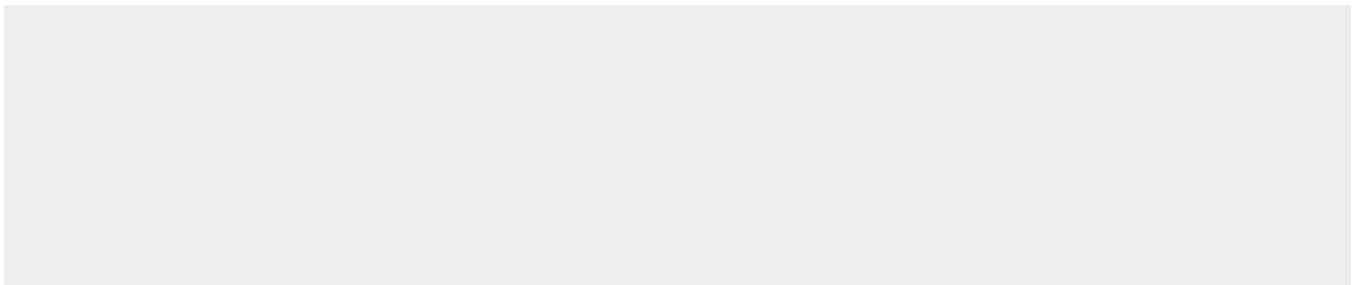
Highly expressed in placenta.

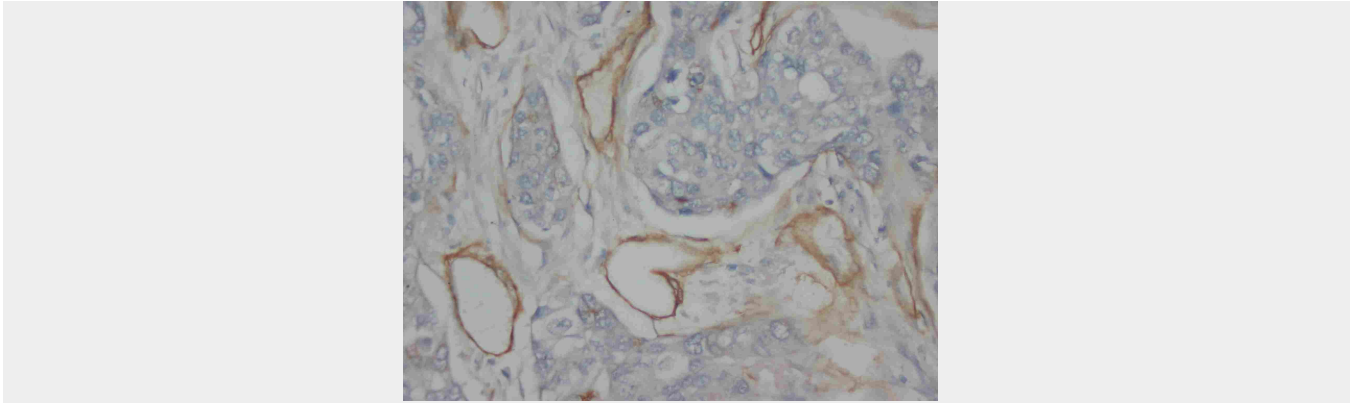
Anti-Collagen, Type IV Antibody (Monoclonal, COL-94) - Protocols

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.