

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

Catalog # ABO10423

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.

Additional Information

Gene ID	1282
Other Names	Collagen alpha-1(IV) chain, Arresten, COL4A1
Calculated MW	160611
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. .
Source	Eukaryota
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 NaN ₃ as preservative.
Clone Names	COL-94
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.

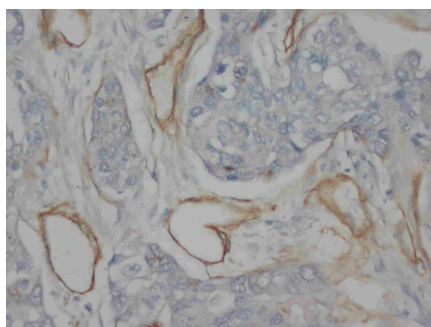
Protein Information

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.

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.

Images



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

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