ELK Biotechnology

COL4A3 rabbit pAb

Cat No.:ES4737

For research use only

Overview

Product Name	COL4A3 rabbit pAb
Host species	Rabbit
Applications	IHC;IF;ELISA
Species Cross-Reactivity	Human;Rat;Mouse;
Recommended dilutions	Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human Collagen IV alpha3. AA range:801-850
Specificity	COL4A3 Polyclonal Antibody detects endogenous levels of COL4A3 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Collagen alpha-3(IV) chain
Gene Name	COL4A3
Cellular localization	Secreted, extracellular space, extracellular matrix, basement membrane. Colocalizes with COL4A4 and COL4A5 in GBM, tubular basement membrane (TBM) and synaptic basal lamina (BL). .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	
Human Gene ID	1285
Human Swiss-Prot Number	Q01955
Alternative Names	COL4A3; Collagen alpha-3(IV) chain; Goodpasture antigen
Background	Type IV collagen, the major structural component of basement membranes, is a multimeric protein

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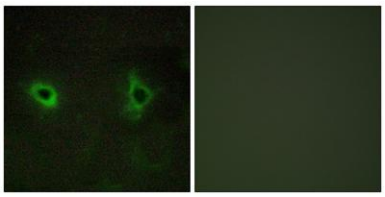
composed of 3 alpha subunits. These subunits are encoded by 6 different genes, alpha 1 through alpha 6, each of which can form a triple helix structure with 2 other subunits to form type IV collagen. This gene encodes alpha 3. In the Goodpasture syndrome, autoantibodies bind to the collagen molecules in the basement membranes of alveoli and glomeruli. The epitopes that elicit these autoantibodies are localized largely to the non-collagenous C-terminal domain of the protein. A specific kinase phosphorylates amino acids in this same C-terminal region and the expression of this kinase is upregulated during pathogenesis. This gene is also linked to an autosomal recessive form of Alport syndrome. The mutations contributing to this syndrome are also located within the exons that encode this C-terminal r

Immunofluorescence analysis of COS7 cells, using Collagen IV alpha3 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using Collagen IV alpha3 Antibody. The picture on the right is blocked with the synthesized peptide.