

COL4A3 Polyclonal Antibody

Catalog Number PA5-38876

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Non-human primate
Host/Isotope	Rabbit / IgG	<div>Tested ApplicationsDilution *</div>	
Class	Polyclonal		
Type	Antibody	Immunohistochemistry (Paraffin) (IHC (P))	1:50-1:100
Immunogen	A synthetic peptide derived from the internal region of human Collagen IV alpha3	Immunocytochemistry (ICC/IF)	1:100-1:500
		* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1 mg/mL		
Storage Conditions	-20°C		

Background/Target Information

Type IV collagen, the major structural component of basement membranes, is a multimeric protein 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 region. Like the other members of the type IV collagen gene family, this gene is organized in a head-to-head conformation with another type IV collagen gene so that each gene pair shares a common promoter. [provided by RefSeq, Jun 2010].

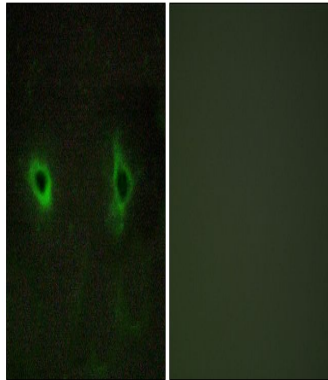
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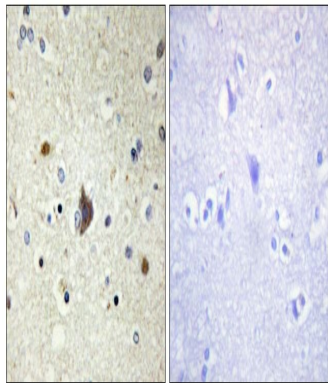
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Product Images For COL4A3 Polyclonal Antibody



COL4A3 Antibody (PA5-38876) in ICC/IF
Immunofluorescent analysis of Collagen IV alpha-3 in COS7 cells using a Collagen IV alpha-3 polyclonal antibody (Product # PA5-38876).



COL4A3 Antibody (PA5-38876) in IHC (P)
Immunohistochemical analysis of Collagen IV alpha-3 in paraffin-embedded human brain tissue using a Collagen IV alpha-3 polyclonal antibody (Product # PA5-38876).

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