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anti-COL4a3 antibody (C-Term)

Images



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	IV/E	۱//۱۲	$I \cap V$

Quantity:	100 μL
Target:	COL4a3 (COL4A3)
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This COL4a3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Purpose:	COL4A3 Rabbit pAb
Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 1600 to the C-terminus of human COL4A3 (NP_000082.2).
Sequence:	SPGSCLEEFR ASPFLECHGR GTCNYYSNSY SFWLASLNPE RMFRKPIPST VKAGELEKII SRCQVCMKKR H
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

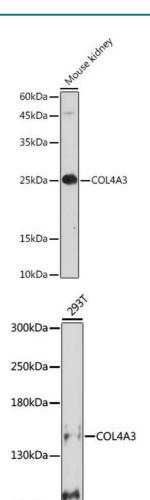
Target Details

Target:	COL4a3 (COL4A3)	
Alternative Name:	COL4A3 (COL4A3 Products)	
Background:	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.,COL4A3,Cancer,Invasion and Metastasis,Signal Transduction,Cell Biology &	
	Developmental Biology,Apoptosis,Cytoskeleton,Extracellular Matrix,Collagen,Immunology &	
	Inflammation,Cardiovascular,Angiogenesis,Angiogenic inhibitory factors,COL4A3	
Molecular Weight:	135kDa/142kDa/158kDa/161kDa	
Gene ID:	1285	
UniProt:	Q01955	
Pathways:	Sensory Perception of Sound, Positive Regulation of Endopeptidase Activity	
Application Details		
Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:200	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.	
Preservative:	Sodium azide	

Handling

	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



100kDa-

Immunofluorescence

Image 1. Immunofluorescence analysis of L929 cells using COL4 antibody (ABIN7266460) at dilution of 1:100. Blue: DAPI for nuclear staining.

Western Blotting

Image 2. Western blot analysis of extracts of Mouse kidney, using COL4 antibody (ABIN7266460) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 60s.