

## Anti-Collagen IV/COL4A1 Antibody Picoband® HRP Conjugated

Catalog Number: PB9099-HRP

### About COL4A1

COL4A1, also known as ICH or Collagen alpha-1 (IV), is a protein that in humans is encoded by the COL4A1 gene. It is mapped to 13q34. This gene encodes the major type IV alpha collagen chain of basement membranes. 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. COL4A1 binds to alpha-1/beta-1 integrin and inhibits migration, proliferation, and tube formation by endothelial cells. It is also a potential therapeutic candidate for targeting tumor angiogenesis.

### Overview

Product Name	Anti-Collagen IV/COL4A1 Antibody Picoband® HRP Conjugated
Reactive Species	Human
Application	WB, IHC, ELISA
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P02462

### Technical Details

Immunogen	E.coli-derived human Collagen IV recombinant protein (Position: G1445-T1669). Human Collagen IV shares 97% amino acid (aa) sequence identity with mouse Collagen IV.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	HRP
Suggested Dilutions	Western blot, Optimal dilutions should be determined by end users. Immunohistochemistry (Paraffin-embedded Section), Optimal dilutions should be determined by end users.

ELISA, Optimal dilutions should be determined by end users.

## 44 Publications Citing This Product

1. PubMed ID: 10.1538/expanim.56.11, Severe Insulin Resistance and Moderate Glomerulosclerosis in a Minipig Model Induced by High-Fat/ High-Sucrose/ High-Cholesterol Diet
2. PubMed ID: 10.3109/0886022X.2014.934694, Effects of uPA on mesangial matrix changes in the kidney of diabetic rats
3. PubMed ID: 10.1590/S0100-879X2010007500132, The effect of down-regulation of Smad3 by RNAi on hepatic stellate cells and a carbon tetrachloride-induced rat model of hepatic fibrosis

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