

Product Datasheet

COL4A1-COL4A6 Antibody (HRP) (orb345847)

Catalog Number	orb345847
Category	Antibodies
Description	Collagen IV antibody (Peroxidase)
Target	COL4A1-COL4A6
Clonality	Polyclonal
Species/Host	Rabbit
Isotype	IgG
Conjugation	HRP
Reactivity	Bovine, Human
Form/Appearance	Lyophilized
Concentration	1.0 mg/mL
Buffer/Preservatives	Preservative: 0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!. Stabilizer: 10 mg/mL Bovine Serum Albumin (rAlbumin) - Immunoglobulin and Protease free; Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

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Purity	Anti-Collagen Type IV has been prepared by immunoaffinity chromatography using immobilized antigens followed by extensive cross-adsorption against other collagens, human serum proteins and non-collagen extracellular matrix proteins to remove any unwanted specificities. Some class-specific anti-collagens may be specific for three-dimensional epitopes which may result in diminished reactivity with denatured collagen or formalin-fixed, paraffin embedded tissues. This antibody reacts with most mammalian Type IV collagens and has negligible cross-reactivity with Type I, II, III, V and VI collagens. Non-specific cross-reaction of anti-collagen antibodies with other human serum proteins or non-collagen extracellular matrix proteins is negligible.
Immunogen	Anti-Collagen Type IV was produced by repeated immunizations with Collagen Type IV from human and bovine placenta.
UniProt ID	P02462
Tested applications	DOT, ELISA, IHC, IP, WB
Dilution range	ELISA: 1:20,000 - 1:100,000, IHC: 1:1,000 - 1:5,000, IP: 1:100, WB: 1:2,000 - 1:10,000
Application notes	Anti-Collagen Type IV Peroxidase Conjugated Antibody has been tested by dot blot and is suitable for western blotting, IHC and for ELISA. Researchers should determine optimal titers for applications that are not stated below.
Antibody Type	Primary Antibody
Storage	Store vial at 4° C prior to restoration. Restore with 0.05 mL of deionized water (or equivalent). For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of restoration.
Note	For research use only
NCBI	NP_001290039.1
Expiration Date	12 months from date of receipt.

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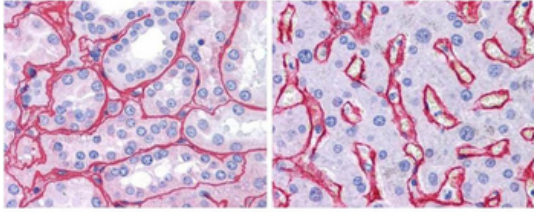
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Immunohistochemistry of Rabbit Anti-Collagen IV Conjugated Antibody. Tissue: human kidney (Left) with strong red staining observed in glomeruli and liver (Right) with strong staining in sinusoids. Fixation: formalin fixed paraffin embedded. Antigen retrieval: steamed in 0.01 M sodium citrate buffer, pH6.0 at 99-100°C - 20 minutes. Primary antibody: Collagen IV antibody at 10 µg/ml for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10000 for 45 min at RT. Localization: Collagen IV is extracellular. Staining: Collagen IV as precipitated red signal with hematoxylin purple nuclear counterstain.

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