

Rabbit Anti-Collagen IV Alpha 4/COL4A4 Polyclonal: RC0029

Intended Use: For Research Use Only

Description: Human Collagen IV Alpha 4 is encoded by the COL4A4 gene. This particular collagen IV subunit, however, is only found in a subset 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. Mutations in this gene are associated with type II autosomal recessive Alport syndrome (hereditary glomerulonephropathy) and with familial benign hematuria (thin basement membrane disease). Two transcripts, differing only in their transcription start sites, have been identified for this gene and, as is common for collagen genes, multiple polyadenylation sites are found in the 3' UTR.

Specifications:

Clone: Polyclonal
 Source: Rabbit
 Isotype: IgG
 Reactivity: Human
 Immunogen: Synthesized peptide derived from the Internal region of human COL4A4
 Localization: Secreted
 Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC, IF
 Package:

Description	Catalog No.	Size
Collagen IV Alpha 4/COL4A4 Concentrated	RC0029	1 ml

IHC Procedure*:

Positive Control Tissue: Liver, kidney
 Concentrated Dilution: 10-100
 Pretreatment: Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
 Incubation Time and Temp: Overnight @ 4°C
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human liver stained with anti-COL4A4

References:

1. A Nonsense Mutation in COL4A4 Gene Causing Isolated Hematuria in Either Heterozygous or Homozygous State. Yang C, et al. Front Genet 10:628, 2019.
2. α -5 Laminin Synthesized by Human Pluripotent Stem Cells Promotes Self-Renewal. Alex Laperle, et al. Stem Cell Reports. Aug 11;5(2):195-206, 2015. doi: 10.1016/j.