



COL4A2 Polyclonal Antibody

E20-71025

Catalog Number:E20-71025

Host Species:Polyclonal, Rabbit

Purification:The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Immunogen Description:The antiserum was produced against synthesized peptide derived from human Collagen IV alpha2. AA range:151-200

Calculated MW:167553Da

Formulation:Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Gene Name:COL4A2

Dilution:Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.

Protein Name:Collagen alpha-2(IV) chain

Human Gene Id:1284

Human Swiss Prot No:P08572

Mouse Gene Id:12827

Mouse Swiss Prot No:P08122

Specificity:COL4A2 Polyclonal Antibody detects endogenous levels of COL4A2 protein.

Concentration:1 mg/ml

Storage Stability:-20°C/1 year

Other Name:COL4A2; Collagen alpha-2(IV) chain

Observed Band(KD):150

Background:collagen type IV alpha 2 chain(COL4A2) Homo sapiens This gene encodes one of the six subunits of type IV collagen, the major structural component of basement membranes. The C-terminal portion of the protein, known as canstatin, is an inhibitor of angiogenesis and tumor growth. 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, Jul 2008],

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Function:domain:Alpha chains of type IV collagen have a non-collagenous domain (NC1) at their C-terminus, frequent interruptions of the G-X-Y repeats in the long central triple-helical domain (which may cause flexibility in the triple helix), and a short N-terminal triple-helical 7S domain.,function:Type IV collagen is the major structural component of glomerular basement membranes (GBM), forming a 'chicken-wire' meshwork together with laminins, proteoglycans and entactin/nidogen. Potently inhibits angiogenesis and tumor growth.,PTM:Prolines at the third position of the tripeptide repeating unit (G-X-Y) are hydroxylated in some or all of the chains.,PTM:The trimeric structure of the NC1 domains may be stabilized by covalent bonds between Lys and Met residues.,PTM:Type IV collagens contain numerous cysteine residues which are involved in inter- and intramolecular disulfide bonding. 12 of these, lo

Subcellular Location:extracellular region,collagen type IV trimer,endoplasmic reticulum lumen,extracellular matrix,intracellular membrane-bounded organelle,extracellular exosome,

Expression:Eye,Hepatocyte,Placenta,Skin,

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