

Product Name: COL4A6 Rabbit Polyclonal Antibody

Catalog #: APRab09190

For research use only.

Summary

Description Rabbit polyclonal Antibody

Host Rabbit

Application WB,IHC,ICC/IF,ELISA **Reactivity** Human,Rat,Mouse

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

ClonalityPolyclonalFormLiquidConcentration1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer**

preservative N.

Purification Affinity purification

Application

Dilution Ratio WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:20000-1:40000

Molecular Weight 160kDa

Antigen Information

Gene Name COL4A6

Alternative Names COL4A6; Collagen alpha-6(IV) chain

 Gene ID
 1288.0

 SwissProt ID
 Q14031

The antiserum was produced against synthesized peptide derived from human Collagen IV Immunogen

alpha6. AA range:1201-1250

Background

This gene encodes one of the six subunits of type IV collagen, the major structural component of basement membranes. Like

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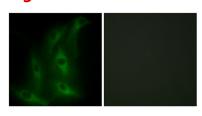


the other members of the type IV collagen gene family, this gene is organized in a head-to-head conformation with another type IV collagen gene, alpha 5 type IV collagen, so that the gene pair shares a common promoter. Deletions in the alpha 5 gene that extend into the alpha 6 gene result in diffuse leiomyomatosis accompanying the X-linked Alport syndrome caused by the deletion in the alpha 5 gene. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2013], disease: Deletions covering the N-terminal regions of COL4A6 and COL4A5, which are localized in a head-tohead manner, are the cause of diffuse leiomyomatosis with Alport syndrome (DL-ATS) [MIM:308940]; also known as esophageal and vulval leiomyomatosis with nephropathy or Alport syndrome and diffuse leiomyomatosis (ATS-DL). DL-ATS is the combination of Alport syndrome (AS) and diffuse leiomyomatosis (DL). AS is characterized by progressive glomerulonephritis, often associated with high-tone sensorineural deafness, specific eye abnormalities (lenticonous and macular flecks), and glomerular basement membrane defects. DL is a tumorous process involving smooth muscle cells, mostly of the esophagus, but also of the tracheobronchial tree and the female genital tract., 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., PTM: Prolines at the third position of the tripeptide repeating unit (G-X-Y) are hydroxylated in some or all of the chains.,PTM:Type IV collagens contain numerous cysteine residues which are involved in inter- and intramolecular disulfide bonding. 12 of these, located in the NC1 domain, are conserved in all known type IV collagens, similarity: Belongs to the type IV collagen family, similarity: Contains 1 collagen IV NC1 (C-terminal non-collagenous) domain, subunit: There are six type IV collagen isoforms, alpha 1(IV)-alpha 6(IV), each of which can form a triple helix structure with 2 other chains to generate type IV collagen network,

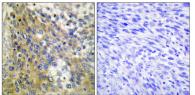
Research Area

Focal adhesion; ECM-receptor interaction; Pathways in cancer; Small cell lung cancer;

Image Data



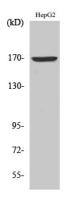
Immunofluorescence analysis of HeLa cells, using Collagen IV alpha6 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human cervix carcinoma tissue, using Collagen IV alpha6 Antibody. The picture on the right is blocked with the synthesized peptide.

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Western Blot analysis of various cells using COL4A6 Polyclonal Antibody diluted at 1 : 500

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