

COL4A3 Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP21945a

Product Information

Application WB, E **Primary Accession** Q01955 Reactivity Human Host Rabbit Clonality polyclonal Isotype Rabbit IgG **Clone Names** RB54513 Calculated MW 161813

Additional Information

Gene ID 1285

Other Names Collagen alpha-3(IV) chain, Goodpasture antigen, Tumstatin, COL4A3

Target/Specificity This COL4A3 antibody is generated from a rabbit immunized with a KLH

conjugated synthetic peptide between 141-173 amino acids from human

COL4A3.

Dilution WB~~1:1000 E~~Use at an assay dependent concentration.

Format Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is purified through a protein A column, followed by peptide

affinity purification.

Storage Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions COL4A3 Antibody (N-Term) is for research use only and not for use in

diagnostic or therapeutic procedures.

Protein Information

Name COL4A3

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.

Cellular Location Secreted, extracellular space, extracellular matrix, basement membrane.

Note=Colocalizes with COL4A4 and COL4A5 in GBM, tubular basement

membrane (TBM) and synaptic basal lamina (BL)

Tissue Location

Alpha 3 and alpha 4 type IV collagens are colocalized and present in kidney, eye, basement membranes of lens capsule, cochlea, lung, skeletal muscle, aorta, synaptic fibers, fetal kidney and fetal lung. PubMed:8083201 reports similar levels of expression of alpha 3 and alpha 4 type IV collagens in kidney, but PubMed:7523402 reports that in kidney levels of alpha 3 type IV collagen are significantly lower than those of alpha 4 type IV collagen. According to PubMed:8083201, alpha 3 type IV collagen is not detected in heart, brain, placenta, liver, pancreas, extrasynaptic muscle fibers, endoneurial and perineurial nerves, fetal brain, fetal heart and fetal liver. According to PubMed:7523402, alpha 3 type IV collagen is strongly expressed in pancreas, neuroretina and calvaria and not expressed in adrenal, ileum and skin. Isoform 1 and isoform 3 are strongly expressed in kidney, lung, suprarenal capsule, muscle and spleen, in each of these tissues isoform 1 is more abundant than isoform 3. Isoform 1 and isoform 3 are expressed at low levels in artery, fat, pericardium and peripherical nerve, but not in placenta, mesangium, skin, pleura and cultured umbilical endothelial cells

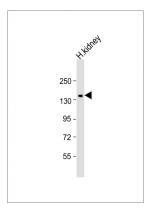
Background

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.

References

Mariyama M.,et al.J. Biol. Chem. 269:23013-23017(1994). Leinonen A.,et al.Submitted (OCT-1998) to the EMBL/GenBank/DDBJ databases. Heidet L.,et al.J. Am. Soc. Nephrol. 12:97-106(2001). Hillier L.W.,et al.Nature 434:724-731(2005). Momota R.,et al.FEBS Lett. 424:11-16(1998).

Images



Anti-COL4A3 Antibody (N-Term) at 1:1000 dilution + kidney lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 162 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.