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COL4A3 Blocking Peptide (N-Term)

Synthetic peptide
Catalog # BP21945a

Specification

COL4A3 Blocking Peptide (N-Term) - Product Information

Primary Accession Q01955

COL4A3 Blocking Peptide (N-Term) - Additional Information

Gene ID 1285

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

Target/Specificity
The synthetic peptide sequence is selected from aa 161-173 of HUMAN COL4A3

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

COL4A3 Blocking Peptide (N-Term) - 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

COL4A3 Blocking Peptide (N-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

COL4A3 Blocking Peptide (N-Term) - Images

COL4A3 Blocking Peptide (N-Term) - 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.

COL4A3 Blocking Peptide (N-Term) - 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).
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