

Native Human COL4A1 Protein

Cat. No. COL4A1-001H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Human COL4A1 Protein was prepared from human placenta and was chromatographically and immunologically pure. This product is free from other collagens, human serum proteins and non-collagen extracellular matrix proteins. This product reacts with anti-Collagen Type IV. Reaction with anti-Collagen I, II, III, V or VI is negligible (typically less than 1% cross-reactivity was detected by ELISA).
Species	Human
Source	Placenta
Description	This gene encodes a type IV collagen alpha protein. Type IV collagen proteins are integral components of basement membranes. This gene shares a bidirectional promoter with a paralogous gene on the opposite strand. The protein consists of an amino-terminal 7S domain, a triple-helix forming collagenous domain, and a carboxy-terminal non-collagenous domain. It functions as part of a heterotrimer and interacts with other extracellular matrix components such as perlecan, proteoglycans, and laminins. In addition, proteolytic cleavage of the non-collagenous carboxy-terminal domain results in a biologically active fragment known as arresten, which has anti-angiogenic and tumor suppressor properties. Mutations in this gene cause porencephaly, cerebrovascular disease, and renal and muscular defects. Alternative splicing results in multiple transcript variants.
Applications	WB: 1:1000

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	ELISA: 1:10000 Immunohistochemistry: 1:100 - 1:500 Immunohistochemistry-Paraffin: 1:100 - 1:500
Storage	Store at 4 centigrade. Do not freeze.
Concentration	1.0 mg/mL
Storage Buffer	0.5 M Acetic Acid
Preservative	0.01% Sodium Azide
GENE INFORMATION	
Gene Name	COL4A1 collagen type IV alpha 1 chain [Homo sapiens (human)]
Official Symbol	COL4A1
Synonyms	COL4A1; collagen type IV alpha 1 chain; BSVD; BSVD1; RATOR; PADMAL; COL4A1s; collagen alpha-1(IV) chain; COL4A1 NC1 domain; arresten; collagen IV, alpha-1 polypeptide; collagen of basement membrane, alpha-1 chain
Gene ID	1282
mRNA Refseq	NM_001845
Protein Refseq	NP_001836
MIM	120130
UniProt ID	P02462

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