

Collagen IV Polyclonal Antibody

Catalog No.	IPB0260
Reactivity	Human; Mouse; Rat
Applications	WB; ELISA
Dilution	WB: 1:500-2000 ELISA: 1:10000-20000
Gene Name	COL4A1
Protein Name	Collagen IV
Human Gene Id	1282
Swiss-Prot	P02462
Formulation	Liquid in PBS containing 50% glycerol, 05% BSA and 002% sodium azide
Source	Rabbit
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Concentration	1 mg/ml
Storage&Stability	-20°C/1 year
Subcellular Location	Secreted, extracellular space, extracellular matrix, basement membrane
MW	-

Background

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

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