

Product Name: COL5A3 Rabbit Polyclonal Antibody
Catalog #: APRab09194



Summary

Production Name	COL5A3 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	COL5A3
Alternative Names	COL5A3; Collagen alpha-3(V) chain
Gene ID	50509.0
SwissProt ID	P25940.The antiserum was produced against synthesized peptide derived from human Collagen V alpha3. AA range:221-270

Application

Dilution Ratio	WB 1:500-1:2000, IHC-P 1:100-1:300, IF-P/IF-F/ICC/IF 1:200-1:1000, ELISA 1:20000.Not yet tested in other applications.
Molecular Weight	170kDa

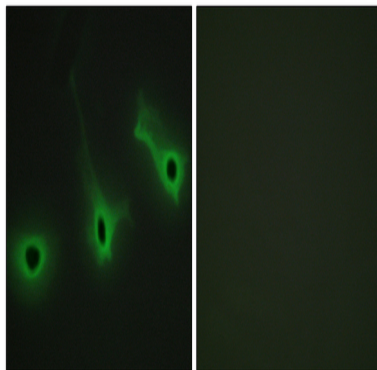
Background

This gene encodes an alpha chain for one of the low abundance fibrillar collagens. Fibrillar collagen molecules are trimers that can be composed of one or more types of alpha chains. Type V collagen is found in tissues containing type I collagen and appears to regulate the assembly of heterotypic fibers composed of both type I and type V collagen. This gene product is closely related to type XI collagen and it is possible that the collagen chains of types V and XI constitute a single collagen type with tissue-specific chain combinations. Mutations in this gene are thought to be responsible for the symptoms of a subset of patients with Ehlers-Danlos syndrome type III. Messages of several sizes can be detected in northern blots but sequence information cannot confirm the identity of the shorter messages. [provided by RefSeq, Jul 2008],function:Type V collagen is a member of group I collagen (fibrillar forming collagen). It is a minor connective tissue component of nearly ubiquitous distribution. Type V collagen binds to DNA, heparan sulfate, thrombospondin, heparin, and insulin.,PTM:Prolines at the third position of the tripeptide repeating unit (G-X-Y) are hydroxylated in some or all of the chains.,similarity:Belongs to the fibrillar collagen family.,similarity:Contains 1 TSP N-terminal (TSPN) domain.,subunit:Trimers of two alpha 1(V) and one alpha 2(V) chains in most tissues and trimers of one alpha 1(V), one alpha 2(V), and one alpha 3(V) chains in placenta.,

Research Area

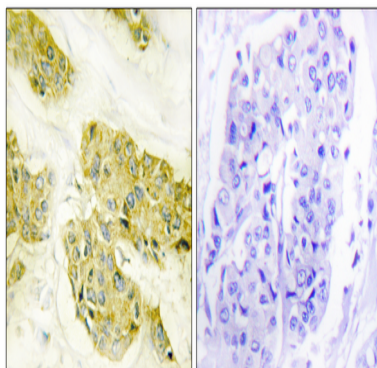
Focal adhesion;ECM-receptor interaction;

Image Data



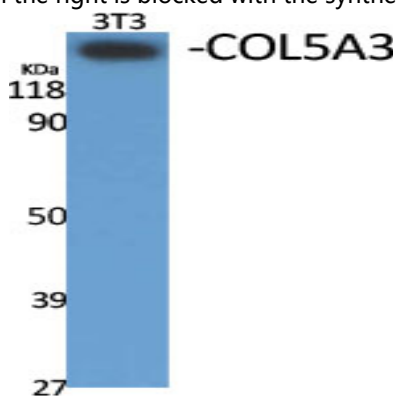
Immunofluorescence analysis of HeLa cells, using Collagen V alpha3 Antibody. The picture on the right is blocked with the synthesized peptide.

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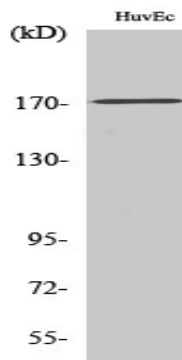


Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using Collagen V alpha3 Antibody.

The picture on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using COL5A3 Polyclonal Antibody



Western Blot analysis of K562 cells using COL5A3 Polyclonal Antibody

Note

For research use only.