Best Tools for immunology Research

COL3A1 Polyclonal Antibody

Catalog No :	YT1023
Reactivity :	Human;Mouse;Rat
Applications :	IHC;IF;ELISA
Target :	Collagen III
Fields :	>>Platelet activation;>>Relaxin signaling pathway;>>AGE-RAGE signaling pathway in diabetic complications;>>Protein digestion and absorption;>>Amoebiasis;>>Diabetic cardiomyopathy
Gene Name :	COL3A1
Protein Name :	Collagen alpha-1(III) chain
Human Gene Id :	1281
Human Swiss Prot No :	P02461
Mouse Gene Id :	12825
Mouse Swiss Prot No :	P08121
Rat Gene Id :	84032
Rat Swiss Prot No :	P13941
Immunogen :	The antiserum was produced against synthesized peptide derived from human Collagen III. AA range:81-130
Specificity :	COL3A1 Polyclonal Antibody detects endogenous levels of COL3A1 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other

applications.

Purification : The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 139kD

Cell Pathway : Focal adhesion;ECM-receptor interaction;

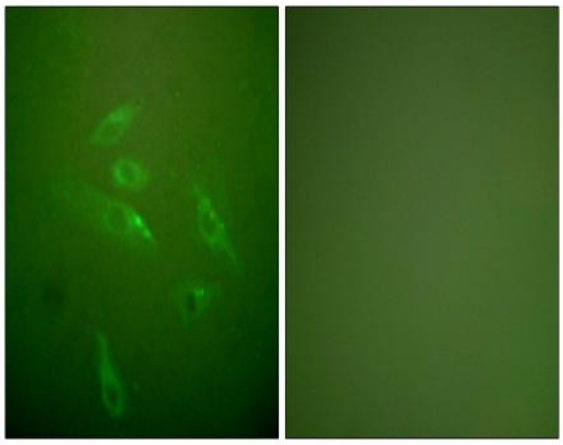
Background : collagen type III alpha 1 chain(COL3A1) Homo sapiens This gene encodes the pro-alpha1 chains of type III collagen, a fibrillar collagen that is found in extensible connective tissues such as skin, lung, uterus, intestine and the vascular system, frequently in association with type I collagen. Mutations in this gene are associated with Ehlers-Danlos syndrome types IV, and with aortic and arterial aneurysms. Two transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene. [provided by R. Dalgleish, Feb 2008],

Function : disease:Defects in COL3A1 are a cause of Ehlers-Danlos syndrome type 3 (EDS3) [MIM:130020]; also known as benign hypermobility syndrome. EDS is a connective tissue disorder characterized by hyperextensible skin, atrophic cutaneous scars due to tissue fragility and joint hyperlaxity. EDS3 is a form of Ehlers-Danlos syndrome characterized by marked joint hyperextensibility without skeletal deformity.,disease:Defects in COL3A1 are a cause of susceptibility to aortic aneurysm abdominal (AAA) [MIM:100070]. AAA is a common multifactorial disorder characterized by permanent dilation of the abdominal aorta, usually due to degenerative changes in the aortic wall. Histologically, AAA is characterized by signs of chronic inflammation, destructive remodeling of the extracellular matrix, and depletion of vascular smooth muscle cells.,disease:Defects in COL3A1 are the cause of Ehlers-Danlos syndrome t

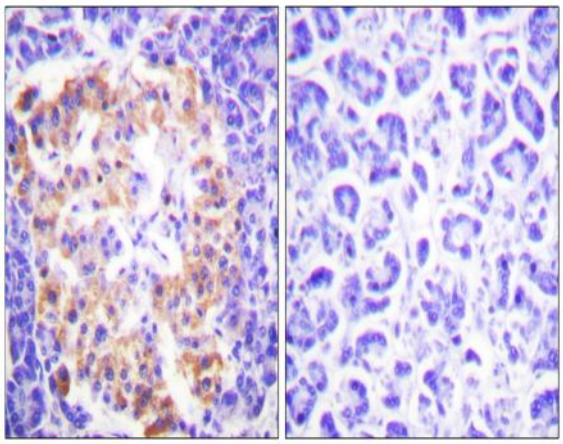
Subcellular Location : Secreted, extracellular space, extracellular matrix .

Expression : Colon carcinoma,Liver,Placenta,Skin fibroblast,

Products Images



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



Immunohistochemistry analysis of paraffin-embedded human pancreas tissue, using Collagen III Antibody. The picture on the right is blocked with the synthesized peptide.