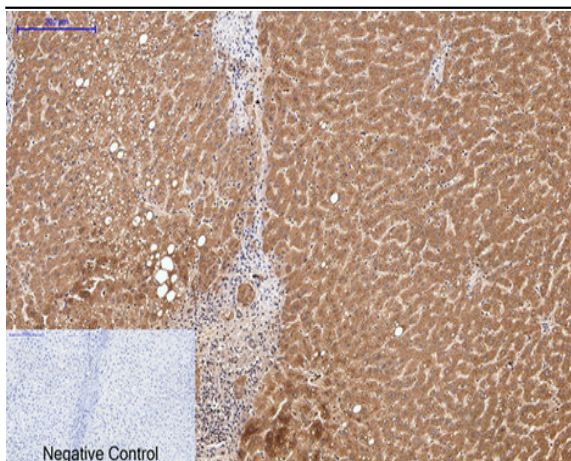


**Collagen III Monoclonal Antibody(Q76)**

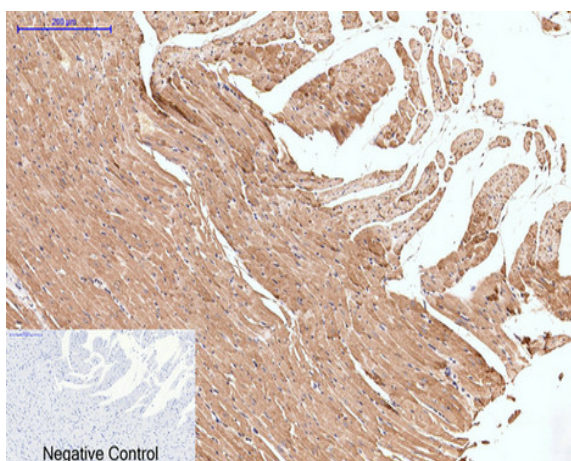
<b>Catalog No :</b>	YM3123
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	IHC;IF;
<b>Target :</b>	Collagen III
<b>Fields :</b>	>>Platelet activation;>>Relaxin signaling pathway;>>AGE-RAGE signaling pathway in diabetic complications;>>Protein digestion and absorption;>>Amoebiasis;>>Diabetic cardiomyopathy
<b>Gene Name :</b>	COL3A1
<b>Protein Name :</b>	Collagen alpha-1(III) chain
<b>Human Gene Id :</b>	1281
<b>Human Swiss Prot No :</b>	P02461
<b>Mouse Gene Id :</b>	12825
<b>Mouse Swiss Prot No :</b>	P08121
<b>Rat Gene Id :</b>	84032
<b>Rat Swiss Prot No :</b>	P13941
<b>Immunogen :</b>	Synthetic Peptide of Collagen III
<b>Specificity :</b>	The antibody detects endogenous Collagen III protein.
<b>Formulation :</b>	PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	IF 1:200 IHC 1:50-300

<b>Purification :</b>	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	138kD
<b>Cell Pathway :</b>	Focal adhesion;ECM-receptor interaction;
<b>Background :</b>	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],
<b>Function :</b>	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
<b>Subcellular Location :</b>	Secreted, extracellular space, extracellular matrix .
<b>Expression :</b>	Colon carcinoma,Liver,Placenta,Skin fibroblast,

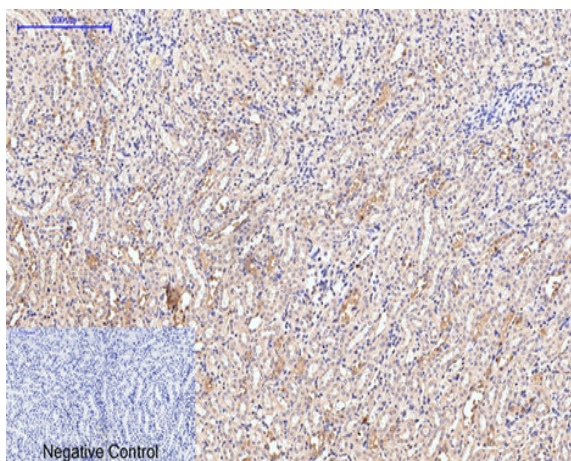
## Products Images



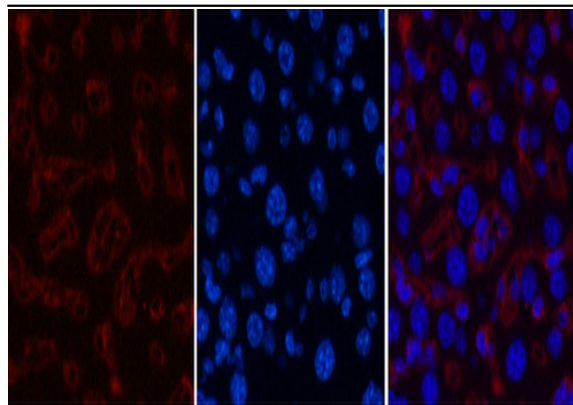
Immunohistochemical analysis of paraffin-embedded Human-liver tissue. 1, Collagen III Monoclonal Antibody(Q76) was diluted at 1:200(4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C, 20min). 3, Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Rat-heart tissue. 1, Collagen III Monoclonal Antibody(Q76) was diluted at 1:200(4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C, 20min). 3, Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Mouse-kidney tissue. 1, Collagen III Monoclonal Antibody(Q76) was diluted at 1:200(4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C, 20min). 3, Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



A

B

C

Immunofluorescence analysis of Mouse-liver tissue. 1, Collagen III Monoclonal Antibody(Q76)(red) was diluted at 1:200(4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min). 3, Picture B: DAPI(blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B