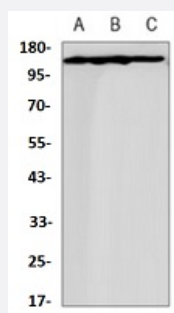


RecomAb™

COL3A1 recombinant monoclonal antibody

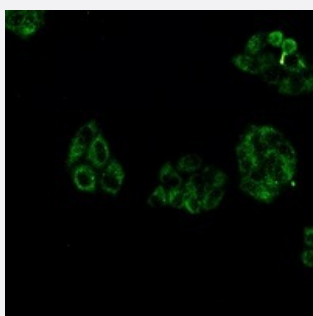
Catalog # RAB02484 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of K562 (A), C6 (B), NIH3T3 (C) whole cell lysates with Collagen 3 alpha 1 recombinant monoclonal antibody (Cat # RAB02484).



Immunofluorescence

Immunofluorescent analysis of HeLa cells with Collagen 3 alpha 1 recombinant monoclonal antibody (Cat # RAB02484). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human COL3A1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein of human Collagen III.
Theoretical MW (kDa)	160
Reactivity	Human, Mouse, Rat

Specificity	Recognizes endogenous levels of Collagen 3 alpha 1 protein.
Form	Liquid
Purification	Immunogen affinity chromatography
Isotype	IgG
Recommend Usage	Immunocytochemistry (1:50-1:100) Immunofluorescence (1:50-1:100) Immunoprecipitation(1:10-1:50) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50mM Tris-Glycine, pH 7.4 (0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of K562 (A), C6 (B), NIH3T3 (C) whole cell lysates with Collagen 3 alpha 1 recombinant monoclonal antibody (Cat # RAB02484).

- Immunocytochemistry

- Immunofluorescence

Immunofluorescent analysis of HeLa cells with Collagen 3 alpha 1 recombinant monoclonal antibody (Cat # RAB02484). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.

- Immunoprecipitation

Gene Info — COL3A1

Entrez GeneID [1281](#)

Protein Accession# [P02461](#)

Gene Name	COL3A1
Gene Alias	EDS4A, FLJ34534
Gene Description	collagen, type III, alpha 1
Omim ID	120180 130020 130050
Gene Ontology	Hyperlink
Gene Summary	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]
Other Designations	Ehlers-Danlos syndrome type IV, autosomal dominant alpha1 (III) collagen collagen type III alpha 1 collagen, fetal

Pathway

- [ECM-receptor interaction](#)
- [Focal adhesion](#)

Disease

- [Aneurysm](#)
- [Angina](#)
- [Aortic Aneurysm](#)
- [Aortic Rupture](#)
- [Cardiovascular Diseases](#)
- [Chorioamnionitis](#)
- [Connective Tissue Diseases](#)
- [Coronary Disease](#)
- [Cystocele](#)
- [Diabetes Mellitus](#)

- [Edema](#)
- [Fetal Diseases](#)
- [Fetal Membranes](#)
- [Gastroesophageal Reflux](#)
- [Genetic Predisposition to Disease](#)
- [Hemorrhage](#)
- [Hepatitis B](#)
- [Hernia](#)
- [Infection](#)
- [Inflammation](#)
- [Intervertebral Disk Displacement](#)
- [Intracranial Aneurysm](#)
- [Kidney Failure](#)
- [Liver Cirrhosis](#)
- [Marfan syndrome](#)
- [Metabolic Syndrome X](#)
- [Mitral Valve Prolapse](#)
- [Musculoskeletal Diseases](#)
- [Myocardial Infarction](#)
- [Myocardial Ischemia](#)
- [Obstetric Labor](#)
- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Rectal Prolapse](#)
- [Renal Insufficiency](#)

- [Skin Diseases](#)
- [Vertebral Artery Dissection](#)
- [Werner syndrome](#)