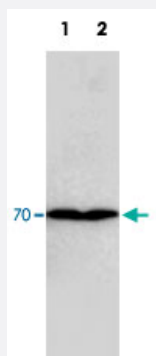


COL3A1 monoclonal antibody, clone FH-7A

Catalog # MAB1514

Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of whole cell lysates with COL3A1 monoclonal antibody, clone COL-29 (Cat # MAB1514).

Lane 1 : HT1080

Lane 2 : Colo 320

Specification

Product Description	Mouse monoclonal antibody raised against native COL3A1.
Immunogen	Native purified human COL3A1.
Host	Mouse
Theoretical MW (kDa)	70
Reactivity	Human, Mouse, Rat
Form	Lyophilized
Purification	Affinity purification
Isotype	IgG1
Recommend Usage	Western Blot (0.25-0.5 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.5-1 ug/mL) Immunohistochemistry (Frozen sections) (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from 1.2% sodium acetate (2 mg BSA, 0.01 mg sodium azide)

Storage Instruction

Store at -20°C on dry atmosphere.
After reconstitution with 1 mL of 1.2% sodium acetate or neutral PBS and concentration will be 100 µg/mL, store at -20°C or lower.
Aliquot to avoid repeated freezing and thawing.

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 whole cell lysates with COL3A1 monoclonal antibody, clone COL-29 (Cat # MAB1514).

Lane 1 : HT1080

Lane 2 : Colo 320

- Immunohistochemistry

Gene Info — COL3A1

Entrez GeneID[1281](#)**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

Publication Reference

- [A Novel Systems-Biology Algorithm for the Analysis of Coordinated Protein Responses Using Quantitative Proteomics.](#)
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Molecular & Cellular Proteomics 2016 May; 15(5):1740.
Application: IF, Mouse, Primary mouse vascular smooth muscle cells
- [Less Contribution of Mast Cells to the Progression of Renal Fibrosis in Rat Kidneys with Chronic Renal Failure.](#)
Baba A, Tachi M, Ejima Y, Endo Y, Toyama H, Saito K, Yamauchi M, Miura C, Kazama I.
Nephrology 2017 Feb; 22(2):159.
Application: IHC-P, Rat, Kidneys
- [Mast cell involvement in the progression of peritoneal fibrosis in rats with chronic renal failure.](#)
Kazama I, Baba A, Endo Y, Toyama H, Ejima Y, Matsubara M, Tachi M.
Nephrology 2015 Sep; 20(9):609.
Application: IHC, Rat, Peritoneum
- [Benidipine suppresses in situ proliferation of leukocytes and slows the progression of renal fibrosis in rat kidneys with advanced chronic renal failure.](#)
Kazama I, Baba A, Matsubara M, Endo Y, Toyama H, Ejima Y.
Nephron Experimental Nephrology 2014 Oct; 128(1-2):67.
Application: IHC, Rat, Kidney
- [Overexpression of Delayed Rectifier K\(+\) Channels Promotes In situ Proliferation of Leukocytes in Rat Kidneys with Advanced Chronic Renal Failure.](#)
Kazama I, Maruyama Y, Endo Y, Toyama H, Ejima Y, Matsubara M, Kurosawa S.
International Journal of Nephrology 2012 May; 2012:581581.
Application: IHC-P, Rat, Rat kidneys
- [Type III collagen is crucial for collagen I fibrillogenesis and for normal cardiovascular development.](#)
Liu X, Wu H, Byrne M, Krane S, Jaenisch R.
PNAS 1997 Mar; 94(5):1852.
- [Physical mapping by PFGE localizes the COL3A1 and COL5A2 genes to a 35-kb region on human chromosome 2.](#)
Cutting GR, McGinniss MJ, Kasch LM, Tsipouras P, Antonarakis SE.
Genomics 1990 Oct; 8(2):407.

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](#)