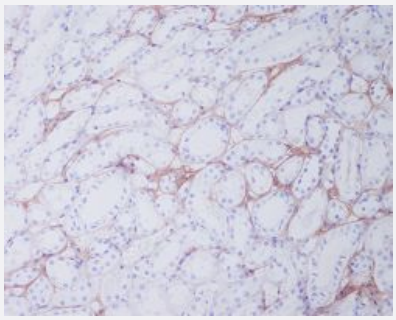
COL1A2 monoclonal antibody, clone AFD-3

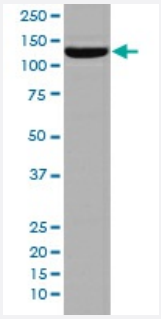
Catalog # MAB19909 Size 100 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of paraffin-embedded human kidney with COL1A2 monoclonal antibody.



Western Blot (Cell lysate)

Western blot analysis of human stomach tissue lysate with COL1A2 monoclonal antibody.

Specification

Product Description	Rabbit monoclonal antibody raised against synthetic peptide of human COL1A2.
Immunogen	A synthetic peptide corresponding to human COL1A2.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Isotype	IgG

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Recommend Usage	Immunohistochemistry (1:50-1:200) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage Instruction	Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and st ored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining of paraffin-embedded human kidney with COL1A2 monoclonal antibody.

- Western Blot (Cell lysate)

  Western blot analysis of human stomach tissue lysate with COL1A2 monoclonal antibody.

Gene Info — COL1A2

Entrez GeneID	1278
Protein Accession#	P08123
Gene Name	COL1A2
Gene Alias	OI4
Gene Description	collagen, type I, alpha 2
Omim ID	120160 130060 166710 259420
Gene Ontology	Hyperlink
Gene Summary	This gene encodes the pro-alpha2 chain of type I collagen whose triple helix comprises two alpha 1 chains and one alpha2 chain. Type I is a fibril-forming collagen found in most connective tissues and is abundant in bone, cornea, dermis and tendon. Mutations in this gene are associated with o steogenesis imperfecta types I-IV, Ehlers-Danlos syndrome type VIIB, recessive Ehlers-Danlos sy ndrome Classical type, idiopathic osteoporosis, and atypical Marfan syndrome. Symptoms assoc iated with mutations in this gene, however, tend to be less severe than mutations in the gene for th e alpha1 chain of type I collagen (COL1A1) reflecting the different role of alpha2 chains in matrix i ntegrity. Three transcripts, resulting from the use of alternate polyadenylation signals, have been i dentified for this gene. [provided by R. Dalgleish

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Other Designations	alpha 2 type I collagen|alpha 2(I)-collagen|alpha-2 collagen type I|collagen I, alpha-2 polypeptide|collagen of skin, tendon and bone, alpha-2 chain|type I procollagen

Pathway

- ECM-receptor interaction
- Focal adhesion

Disease

- Body Weight
- Cardiovascular Diseases
- Carotid Stenosis
- Chorioamnionitis
- Chronic Disease
- Connective Tissue Diseases
- Diabetes Mellitus
- Disease Susceptibility
- Edema
- Femoral Neck Fractures
- Fetal Diseases
- Fetal Membranes
- Fluorosis
- Fractures
- Genetic Predisposition to Disease
- Hearing Loss
- Hypertension
- Inflammation

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- Intervertebral Disk Displacement
- Intracranial Aneurysm
- Kidney Diseases
- Kidney Failure
- Mouth Neoplasms
- Musculoskeletal Diseases
- Obstetric Labor
- Oral Submucous Fibrosis
- Osteogenesis Imperfecta
- Osteoporosis
- Otosclerosis
- Precancerous Conditions
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Pulmonary Disease
- Skin Diseases
- Stroke
- Werner syndrome

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