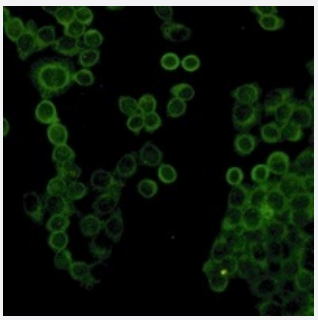
RecomAb™

COL1A1 recombinant monoclonal antibody

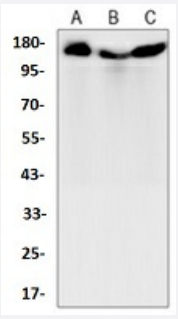
Catalog # RAB02583 Size 100 uL

Applications



Immunofluorescence

Immunofluorescent analysis of HeLa cells with COL1A1 recombinant monoclonal antibody (Cat # RAB02583). 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 hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.



Western Blot (Cell lysate)

Western blot analysis of A549 (A), HL60 (B), U2OS (C) whole cell lysates with COL1A1 recombinant monoclonal antibody (Cat # RAB02583).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human COL1A1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein of human COL1A1.
Theoretical MW (kDa)	160
Reactivity	Human

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Specificity	Recognizes endogenous levels of Collagen 1 alpha 1 protein.
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
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)
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 shoul d be handled by trained staff only.

Applications

- Immunofluorescence

  Immunofluorescent analysis of HeLa cells with COL1A1 recombinant monoclonal antibody (Cat # RAB02583). 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 hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.

- Immunocytochemistry

- Immunoprecipitation

- Western Blot (Cell lysate)

  Western blot analysis of A549 (A), HL60 (B), U2OS (C) whole cell lysates with COL1A1 recombinant monoclonal antibody (Cat # RAB02583).

Gene Info — COL1A1

Entrez GeneID	1277

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Protein Accession#	P02452
Gene Name	COL1A1
Gene Alias	OI4
Gene Description	collagen, type I, alpha 1
Omim ID	114000 120150 130000 130060 166200 166210 166220 166710 259420
Gene Ontology	Hyperlink
Gene Summary	This gene encodes the pro-alpha1 chains of type I collagen whose triple helix comprises two alpha1 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 osteogenesis imperfecta types I-IV, Ehlers-Danlos syndrome type VIIA, Ehlers-Danlos syndrome Classical type, Caffey Disease and idiopathic osteoporosis. Reciprocal translocations between chromosomes 17 and 22, where this gene and the gene for platelet-derived growth factor beta are located, are associated with a particular type of skin tumor called dermatofibrosarcoma protuberans, resulting from unregulated expression of the growth factor. Two transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene. [provided by R. Dalgleish
Other Designations	alpha 1 type I collagen|collagen alpha 1 chain type I|collagen of skin, tendon and bone, alpha-1 chain|pro-alpha-1 collagen type 1|type I collagen alpha 1 chain

Pathway

- ECM-receptor interaction
- Focal adhesion

Disease

- Alzheimer disease
- Aortic Aneurysm
- beta-Thalassemia
- Body Weight
- Bone Diseases
- Bone Neoplasms
- Cardiovascular Diseases

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- Chorioamnionitis
- Chronic Disease
- Clubfoot
- Connective Tissue Diseases
- Coronary Artery Disease
- Crohn Disease
- Cystic fibrosis
- Diabetes Complications
- Diabetes Mellitus
- Disease Susceptibility
- Diseases in Twins
- Dwarfism
- Edema
- Femoral Neck Fractures
- Fetal Diseases
- Fetal Membranes
- Fractures
- Genetic Predisposition to Disease
- Glaucoma
- Hearing Loss
- Hepatitis B
- Hip Dislocation
- Hip Fractures
- Infection
- Inflammation
- Insulin Resistance

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- Intervertebral Disk Displacement
- Liver Cirrhosis
- Low Back Pain
- Metabolic Syndrome X
- Mouth Neoplasms
- Musculoskeletal Diseases
- Myocardial Infarction
- Myopia
- Neoplasms
- Obstetric Labor
- Oral Submucous Fibrosis
- Osteoarthritis
- Osteogenesis Imperfecta
- Osteoporosis
- Otosclerosis
- Periodontitis
- Precancerous Conditions
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Puberty
- Pulmonary Disease
- Rupture
- Shoulder Dislocation
- Skin Diseases
- Soft Tissue Injuries

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- Spinal Diseases
- Spinal Fractures
- Spinal Injuries
- Tendinopathy
- Thalassemia
- Tobacco Use Disorder
- Urinary Incontinence
- Uterine Cervical Incompetence
- Wrist Injuries

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