

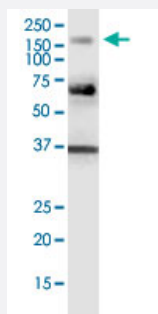
CX Grade

COL1A1 monoclonal antibody (M01J), clone 3G3

Catalog # H00001277-M01J

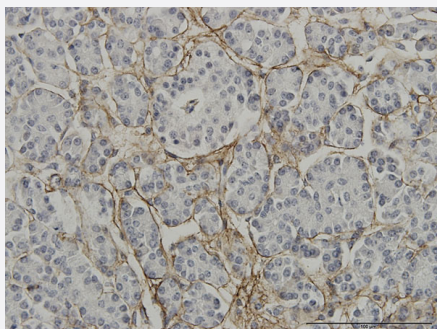
Size 100 ug

Applications



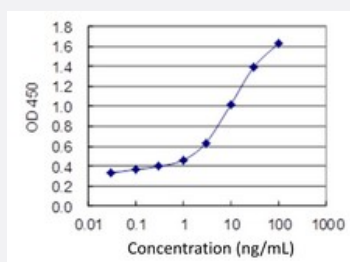
Western Blot (Cell lysate)

COL1A1 monoclonal antibody (M01J), clone 3G3. Western Blot analysis of COL1A1 expression in NIH/3T3.



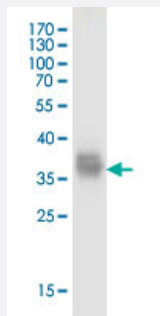
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to COL1A1 on formalin-fixed paraffin-embedded human pancreas. [antibody concentration 3 ug/ml]



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged COL1A1 is 0.03 ng/ml as a capture antibody.



Western Blot detection against Immunogen (35.42 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant COL1A1. This product is belong to Cell Culture Grade Antibody (CX Grade).
Immunogen	COL1A1 (NP_000079.1, 1021 a.a. ~ 1108 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	EGSPGRDGSPGAKGDRGETGPAGPPGAPGAPGAPGVPAGKSGDRGETGPAGPAGPVGVPV GARGPAGPQGPRGDKGETGEQGDRIK
Host	Mouse
Reactivity	Human, Mouse
Interspecies Antigen Sequence	Mouse (95); Rat (95)
Preparation Method	Cell Culture Production
Isotype	IgG3 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (35.42 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

COL1A1 monoclonal antibody (M01J), clone 3G3. Western Blot analysis of COL1A1 expression in NIH/3T3.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

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

Immunoperoxidase of monoclonal antibody to COL1A1 on formalin-fixed paraffin-embedded human pancreas. [antibody concentration 3 ug/ml]

[Protocol Download](#)

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[Protocol Download](#)

- ELISA

Gene Info — COL1A1

Entrez GeneID [1277](#)

GeneBank Accession# [NM_000088](#)

Protein Accession# [NP_000079.1](#)

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 tissue 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. Dalglish]

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](#)
- [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](#)
- [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](#)
- [Spinal Diseases](#)
- [Spinal Fractures](#)
- [Spinal Injuries](#)
- [Tendinopathy](#)
- [Thalassemia](#)
- [Tobacco Use Disorder](#)
- [Urinary Incontinence](#)
- [Uterine Cervical Incompetence](#)
- [Wrist Injuries](#)