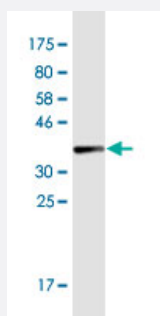


COL1A2 monoclonal antibody (M03), clone 7E11

Catalog # H00001278-M03

Size 100 ug

Applications



Western Blot detection against Immunogen (37.95 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant COL1A2.
Immunogen	COL1A2 (AAH54498.1, 1257 a.a. ~ 1366 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MRLANYASQNITYHCKNSIAYMDEETGNLKKAVILQGSNDVELVAEGNSRFTYTVLVDGCSKKTN EWGKTIIIEYKTNKPSRLPFLDIAPLDIGGADQEFFVDIGPVCFK
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (92)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.95 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 (Recombinant protein)

[Protocol Download](#)

- ELISA

Gene Info — COL1A2

Entrez GeneID [1278](#)

GeneBank Accession# [BC054498](#)

Protein Accession# [AAH54498.1](#)

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 osteogenesis imperfecta types I-IV, Ehlers-Danlos syndrome type VIIIB, recessive Ehlers-Danlos syndrome Classical type, idiopathic osteoporosis, and atypical Marfan syndrome. Symptoms associated with mutations in this gene, however, tend to be less severe than mutations in the gene for the alpha1 chain of type I collagen (COL1A1) reflecting the different role of alpha2 chains in matrix integrity. Three transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene. [provided by R. Dalglish]

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

Publication Reference

- [Development and systematic evaluation of decellularization protocols in different application models for diaphragmatic tissue engineering.](#)

Marco N Andreas, Agnes K Boehm, Peter Tang, Simon Moosburner, Oliver Klein, Assal Daneshgar, Joseph M G V Gaßner, Nathanael Raschzok, Luna Haderer, Dag Wulsten, Jens-Carsten Rückert, Simone Spuler, Johann Pratschke, Igor M Sauer, Karl H Hillebrandt.

Biomaterials Advances 2023 Oct; 153:213493.

Application: IHC, Rat, Rat Diaphragm collagen

- [Solid fraction determines stiffness and viscosity in decellularized pancreatic tissues.](#)

Joachim Snellings, Eriselda Keshi, Peter Tang, Assal Daneshgar, Esther C Willma, Luna Haderer, Oliver Klein, Felix Krenzien, Thomas Malinka, Patrick Asbach, Johann Pratschke, Igor M Sauer, Jürgen Braun, Ingolf Sack, Karl Hillebrandt.

Biomaterials Advances 2022 Aug; 139:212999.

Application: IHC-P, Pig, Pig pancreas

- [Engineering an endothelialized, endocrine Neo-Pancreas: evaluation of islet functionality in an ex vivo model.](#)

Hannah Everwien, Eriselda Keshi, Karl H Hillebrandt, Barbara Ludwig, Marie Weinhardt, Peter Tang, Anika S Beierle, Hendrik Napierala, Joseph Mgv Gassner, Nicolai Seiffert, Simon Moosburner, Dominik Geisel, Anja Reutzel-Selke, Benjamin Strücker, Johann Pratschke, Nils Haep, Igor M Sauer.

Acta Biomaterialia 2020 Nov; 117:213.

Application: IHC-P, Rat, Rat liver

- [Magnetic resonance elastography quantification of the solid-to-fluid transition of liver tissue due to decellularization.](#)

Hannah Everwien, Angela Ariza de Schellenberger, Nils Haep, Heiko Tzschätzsch, Johann Pratschke, Igor M Sauer, Jürgen Braun, Karl H Hillebrandt, Ingolf Sack.

Journal of the Mechanical Behavior of Biomedical Materials 2020 Apr; 104:103640.

Application: IHC-P, Rat, Rat liver

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](#)
- [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](#)