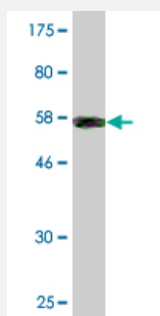


# COL2A1 monoclonal antibody (M06), clone 1E1

Catalog # H00001280-M06

Size 100 ug

## Applications



Western Blot detection against Immunogen (55.22 KDa) .

## Specification

|                                      |                                                                                                                                                                                                                                                                                                 |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>           | Mouse monoclonal antibody raised against a full-length recombinant COL2A1 .                                                                                                                                                                                                                     |
| <b>Immunogen</b>                     | COL2A1 (AAH07252, 1 a.a. ~ 268 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.                                                                                                                                                                            |
| <b>Sequence</b>                      | MSAFAGLGPREKGPDPDPLQYMRADQAAGGLRQHDAEVDATLKSLNNQIESIRSPEGSRKNPARTC<br>RDLKLCHPEWKSGDYWIDPNQGCTLDAMKVFCNMETGETCVYPNPANVPKKNWWSSKSKEKK<br>HIWFGETINGGFHFSYGDDNLAPNTANVQMTFLRLLLSTEGSQNITYHCKNSIAYLDEAAGNLKKALLI<br>QGSNDVEIRAEGNSRFTYTALKDGGCTKHTGKWGKTVEYRSQKTSRLPIIDIAPMDIGGPEQEFQVD<br>IGPVCFL |
| <b>Host</b>                          | Mouse                                                                                                                                                                                                                                                                                           |
| <b>Reactivity</b>                    | Human                                                                                                                                                                                                                                                                                           |
| <b>Interspecies Antigen Sequence</b> | Mouse (94); Rat (94)                                                                                                                                                                                                                                                                            |
| <b>Isotype</b>                       | IgG2a Kappa                                                                                                                                                                                                                                                                                     |
| <b>Quality Control Testing</b>       | Antibody Reactive Against Recombinant Protein.<br>Western Blot detection against Immunogen (55.22 KDa) .                                                                                                                                                                                        |
| <b>Storage Buffer</b>                | 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 — COL2A1

**Entrez GeneID** [1280](#)**GeneBank Accession#** [BC007252](#)**Protein Accession#** [AAH07252](#)**Gene Name** COL2A1**Gene Alias** ANFH, AOM, COL11A3, MGC131516, SEDC**Gene Description** collagen, type II, alpha 1**Omim ID** [108300](#) [120140](#) [132450](#) [151210](#) [156550](#) [165720](#) [183900](#) [184250](#) [184252](#) [200610](#) [215150](#) [271700](#) [608805](#)**Gene Ontology** [Hyperlink](#)

**Gene Summary** This gene encodes the alpha-1 chain of type II collagen, a fibrillar collagen found in cartilage and the vitreous humor of the eye. Mutations in this gene are associated with achondrogenesis, chondrodysplasia, early onset familial osteoarthritis, SED congenita, Langer-Saldino achondrogenesis, Kniest dysplasia, Stickler syndrome type I, and spondyloepimetaphyseal dysplasia Strudwick type. In addition, defects in processing chondrocalcin, a calcium binding protein that is the C-propeptide of this collagen molecule, are also associated with chondrodysplasia. There are two transcripts identified for this gene. [provided by RefSeq]

**Other Designations** OTTHUMP00000195063|cartilage collagen|chondrocalcin|collagen II, alpha-1 polypeptide

## Pathway

- [ECM-receptor interaction](#)
- [Focal adhesion](#)

## Disease

- [Asthma](#)
- [Cardiovascular Diseases](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Cumulative Trauma Disorders](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Gaucher disease](#)
- [Genetic Predisposition to Disease](#)
- [Hip Dislocation](#)
- [Intervertebral Disk Displacement](#)
- [Legg-Perthes Disease](#)
- [Myopia](#)
- [Occupational Diseases](#)
- [Osteoarthritis](#)
- [Thrombophilia](#)
- [Toxoplasmosis](#)