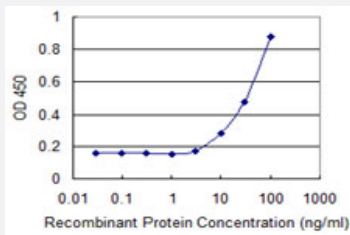


# COL9A1 monoclonal antibody (M07), clone 3H1

Catalog # H00001297-M07

Size 100 ug

## Applications



### Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged COL9A1 is 3 ng/ml as a capture antibody.

## Specification

|                         |                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description     | Mouse monoclonal antibody raised against a full-length recombinant COL9A1.                                                                                                                                                                                                                                                                                  |
| Immunogen               | COL9A1 (AAH15409, 1 a.a. ~ 328 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.                                                                                                                                                                                                                                        |
| Sequence                | MKTCWKIPVFFFVCSFLEPWASAAVKRRPRFPVNSNSNGGNELCPKIRIGQDDLPGFDLISQFQV<br>DKAASRRAIQRVVGSATLQVAYKLGNNVDFRIPTRNLYPSGLPEEYSFLTTFRMTGSTLKKNNWNW<br>QIQDSSGKEQVGKINGQTQSVVFSYKGLDGSQTAAFSNLSSLFDSQWHKIMIGVERSSATLFVD<br>CNRIESLPIKPRGPIDIDGFAVLGKLADNPQVSVFELQWMLIHCDPLRPRRETCHHELPARITPSQT<br>TDERGPPGEQGP GPPGPPGVP GIDGIDGDRGPKGPPGPPGPAGEPGKPGAPGKPGTPGADT<br>SP |
| Host                    | Mouse                                                                                                                                                                                                                                                                                                                                                       |
| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                       |
| Isotype                 | IgG2a Kappa                                                                                                                                                                                                                                                                                                                                                 |
| Quality Control Testing | Antibody Reactive Against Recombinant Protein.                                                                                                                                                                                                                                                                                                              |
| Storage Buffer          | In 1x PBS, pH 7.4                                                                                                                                                                                                                                                                                                                                           |
| Storage Instruction     | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                    |

## Applications

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged COL9A1 is 3 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

## Gene Info — COL9A1

Entrez GeneID [1297](#)

GeneBank Accession# [BC015409](#)

Protein Accession# [AAH15409](#)

Gene Name COL9A1

Gene Alias DJ149L1.1.2, EDM6, FLJ40263, MED

Gene Description collagen, type IX, alpha 1

Omim ID [120210](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** This gene encodes one of the three alpha chains of type IX collagen, which is a minor (5-20%) collagen component of hyaline cartilage. Type IX collagen is usually found in tissues containing type II collagen, a fibrillar collagen. Studies in knockout mice have shown that synthesis of the alpha 1 chain is essential for assembly of type IX collagen molecules, a heterotrimeric molecule, and that lack of type IX collagen is associated with early onset osteoarthritis. Mutations in this gene are associated with osteoarthritis in humans, with multiple epiphyseal dysplasia, 6, a form of chondrodysplasia, and with Stickler syndrome, a disease characterized by ocular, orofacial, articular, and auditory defects. Two transcript variants that encode different isoforms have been identified for this gene. [provided by RefSeq]

**Other Designations** alpha 1 type IX collagen|alpha-1(IX) collagen chain|cartilage-specific short collagen|collagen IX, alpha-1 polypeptide

## Disease

- [Cardiovascular Diseases](#)

- [Clubfoot](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Intervertebral Disk Displacement](#)
- [Osteoarthritis](#)
- [Osteochondrodysplasias](#)
- [Tobacco Use Disorder](#)