**Product Name: COL1A1 Mouse Monoclonal Antibody**
**Catalog #: AMM82343**

## Summary

| | |
|---|---|
| **Production Name** | COL1A1 Mouse Monoclonal Antibody |
| **Description** | Mouse Monoclonal Antibody |
| **Host** | Mouse |
| **Application** | FC,ELISA |
| **Reactivity** | Human |

## Performance

| | |
|---|---|
| **Conjugation** | Unconjugated |
| **Modification** | Unmodified |
| **Isotype** | Mouse IgG1 |
| **Clonality** | Monoclonal |
| **Form** | Liquid |
| **Storage** | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |
| **Buffer** | Purified antibody in PBS with 0.05% sodium azide |
| **Purification** | Affinity Purification |

## Immunogen

| | |
|---|---|
| **Gene Name** | COL1A1 |
| **Alternative Names** | OI1; OI2; OI3; OI4; EDSC; EDSARTH1 |
| **Gene ID** | 1277.0 |
| **SwissProt ID** | P02452.Purified recombinant fragment of human COL1A1 (AA: 1219-1464) expressed in E. Coli. |

## Application

| | |
|---|---|
| **Dilution Ratio** | FC:1:200-1:400,ELISA:1:10000 |
| **Molecular Weight** | 139kDa |

## Background

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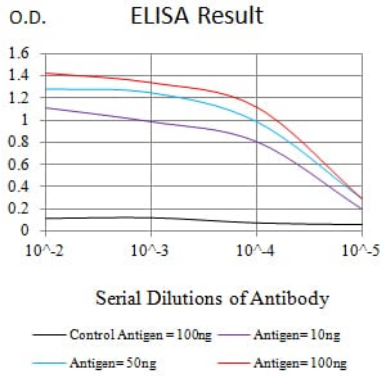
This gene encodes the pro-alpha1 chains of type I collagen whose triple helix comprises two alpha1 chains and one alpha2 chain. Type I is a fibril-forming collagen found in most connective tissues and is abundant in bone, cornea, dermis and tendon. Mutations in this gene are associated with osteogenesis 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, Feb 2008]

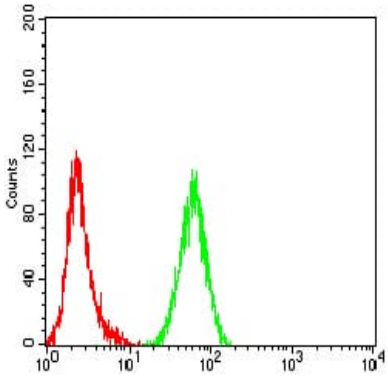
## Research Area

PI3K-Akt signaling pathway

## Image Data




Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)




Flow cytometric analysis of Hela cells using COL1A1 mouse mAb (green) and negative control (red).

## Note

For research use only.