

## COL2A1 monoclonal antibody

Catalog: MB23403

Host: Mouse

Reactivity: Human

### Background:

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.

### Product:

Purified antibody in PBS with 0.05% sodium azide

### Molecular Weight:

141.8kDa

### Swiss-Prot:

P02458

### Purification&Purity:

The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB:1/500 - 1/2000 IF:1/50 - 1/200 FC:1/200 - 1/400

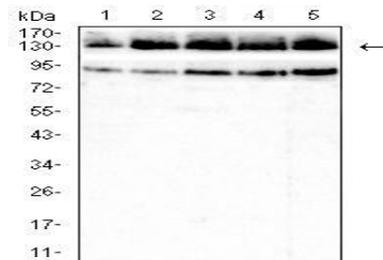
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

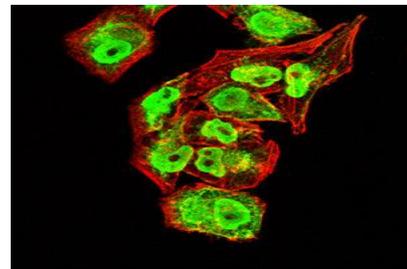
### Isotype:

Mouse IgG1

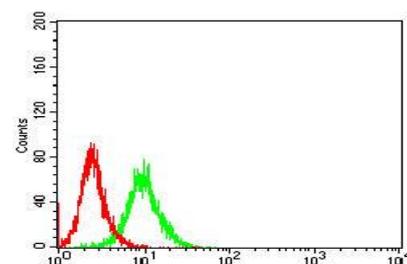
### DATA:



Western blot analysis using COL2A1 mouse mAb against HeLa (1), MCF-7 (2), A549 (3), Jurkat (4), and K562 (5) cell lysate.



Immunofluorescence analysis of HeLa cells using COL2A1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)



Flow cytometric analysis of Jurkat cells using COL2A1 mouse mAb (green) and negative control (red).

### Note:

For research use only, not for use in diagnostic procedure.

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