

Anti-Collagen 2 alpha 1 Antibody

Catalog # AP95782

Product Information

Application	WB, FC, IF/IC
Primary Accession	P02458
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	141785

Additional Information

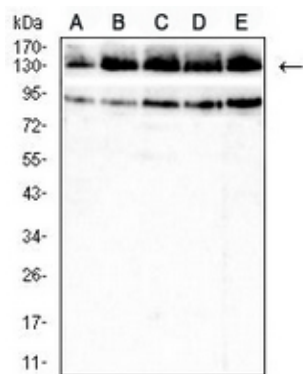
Gene ID	1280
Other Names	Collagen alpha-1(II) chain; Alpha-1 type II collagen
Target/Specificity	Recombinant fusion protein of human Collagen 2 alpha 1 expressed in HEK293
Dilution	WB~~WB (1/500 - 1/1000) FC~~FC (1/100 - 1/200) IF/IC~~N/A
Format	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

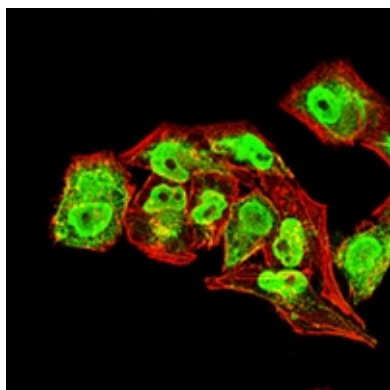
Name	COL2A1 (HGNC:2200)
Function	Type II collagen is specific for cartilaginous tissues. It is essential for the normal embryonic development of the skeleton, for linear growth and for the ability of cartilage to resist compressive forces.
Cellular Location	Secreted, extracellular space, extracellular matrix {ECO:0000255 PROSITE-ProRule:PRU00793}
Tissue Location	Isoform 2 is highly expressed in juvenile chondrocyte and low in fetal chondrocyte.

Images

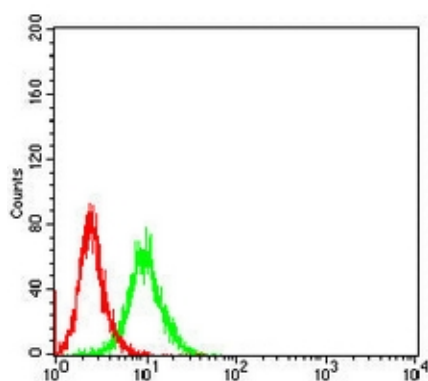
Western blot analysis of Collagen 2 alpha 1 expression in
Hela (A), MCF7 (B), A549 (C), Jurkat (D), K562 (E) whole cell



lysates. (Predicted band size: 142 kD; Observed band size: 130 kD)



Immunofluorescent analysis of Collagen 2 alpha 1 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



Flow cytometric analysis of Jurkat cells using Anti-Collagen 2 alpha 1 Antibody (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.