

Anti-Collagen 1 alpha 2 Antibody

Catalog # AP51102

Product Information

Application	WB, IHC, IF/IC
Primary Accession	P08123
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	129314

Additional Information

Gene ID	1278
Other Names	Collagen alpha-2(I) chain; Alpha-2 type I collagen
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Collagen 1 alpha 2. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

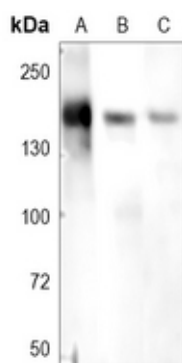
Protein Information

Name	COL1A2
Function	Type I collagen is a member of group I collagen (fibrillar forming collagen).
Cellular Location	Secreted, extracellular space, extracellular matrix {ECO:0000255 PROSITE-ProRule:PRU00793}
Tissue Location	Forms the fibrils of tendon, ligaments and bones. In bones the fibrils are mineralized with calcium hydroxyapatite

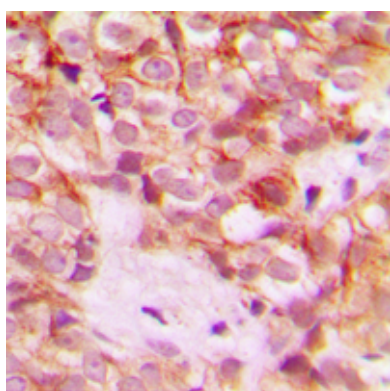
References

de Wet W.J.,et al.J. Biol. Chem. 262:16032-16036(1987).
Dagleish R.,et al.Nucleic Acids Res. 25:181-187(1997).
Korkko J.M.,et al.Am. J. Hum. Genet. 62:98-110(1998).
Kuivaniemi H.,et al.Biochem. J. 252:633-640(1988).

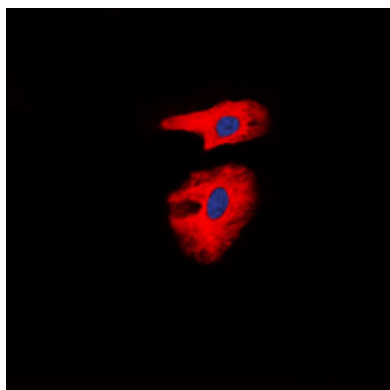
Images



Western blot analysis of Collagen 1 alpha 2 expression in A2780 (A), mouse liver (B), rat liver (C) whole cell lysates. (Predicted band size: 129 kD; Observed band size: 140 kD)



Immunohistochemical analysis of Collagen 1 alpha 2 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Collagen 1 alpha 2 staining in A431 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 a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

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