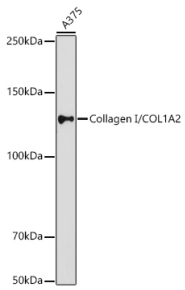
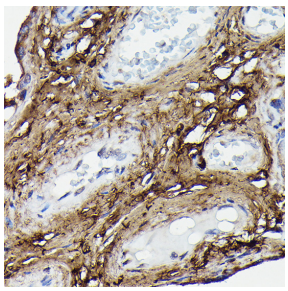
Product Data Sheet:
Collagen I / COL1A2 Rabbit Polyclonal Antibody

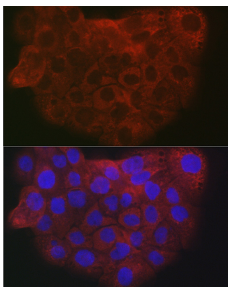
Cat. No:	AB-84752
Conjugate:	Unconjugated
Size:	100 ug
Clone:	POLY
Concentration:	1mg/ml
Host:	Rabbit
Isotype:	IgG
Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 500-600 of human Collagen I/COL1A2.
Reactivity:	Human, Mouse, Rat
Applications:	Western Blot: 1:500 – 1:1000 Immunohistochemistry (paraffin embedded tissues): 1:50 – 1:200 Immunofluorescence: 1:25 – 1:200 Immunocytochemistry: 1:25 – 1:200
Molecular Weight:	129KDa
Purification:	Affinity purification
Synonyms:	OI4; EDSCV; EDSARTH2
Background:	This gene encodes the pro-alpha2 chain 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 VIIB, recessive Ehlers-Danlos syndrome Classical type, idiopathic osteoporosis, and atypical Marfan syndrome. Symptoms associated with mutations in this gene, however, tend to be less severe than mutations in the gene for the alpha1 chain of type I collagen (COL1A1) reflecting the different role of alpha2 chains in matrix integrity. Three transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene.
Form:	Liquid
Buffer:	PBS with 0.05% proclin300,50% glycerol,pH7.3.
Storage:	Store at -20℃. Avoid freeze / thaw cycles.



Western blot analysis of extracts of A375 cells, using Collagen I/COL1A2 antibody at 1:1000

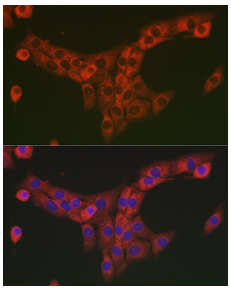


Immunohistochemistry of paraffinembedded human placenta using Collagen I/COL1A2 Rabbit pAb at dilution



Immunofluorescence analysis of A-431 cells using Collagen I/COL1A2 antibody at dilution of 1:25. Blue: DAPI for

dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL West Pico Plus.
Exposure time: 180s.



Immunofluorescence analysis of NIH/3T3 cells using Collagen I/COL1A2 antibody at dilution of 1:25. Blue: DAPI for nuclear staining.

of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

nuclear staining.

References:

References for Collagen I/COL1A2 Rabbit pAb
Product:Collagen I/COL1A2 Rabbit pAb
Journal:Experimental Hematology
Application:WB
IF:3.084
Species:Homo sapiens
PMID:27539861
Title:Quantitative proteomic analysis and comparison of two bone marrow stromal cell lines using the SILAC method

References for Collagen I/COL1A2 Rabbit pAb
Product:Collagen I/COL1A2 Rabbit pAb
Journal:Oncotarget
Application:WB
IF:3.765
Species:Rattus norvegicus
PMID:29299161
Title:N-AC-l-Leu-PEI-mediated miR-34a delivery improves osteogenic differentiation under orthodontic force

References for Collagen I/COL1A2 Rabbit pAb
Product:Collagen I/COL1A2 Rabbit pAb
Journal:Experimental Cell Research
Application:WB
IF:3.905
Species:Rattus norvegicus
PMID:29856991
Title:Endoplasmic reticulum stress-dependent ROS production mediates synovial yofibroblasticdifferentiation in the immobilization-induced rat knee joint contracture model

References for Collagen I/COL1A2 Rabbit pAb
Product:Collagen I/COL1A2 Rabbit pAb
Journal:J Orthop Surg Res

Application:WB
IF:2.359
Species:Mus musculus
PMID:32795334
Title:The Toll-like receptor ligand, CpG oligodeoxynucleotides, regulate proliferation and osteogenic differentiation of osteoblast

References for Collagen I/COL1A2 Rabbit pAb
Product:Collagen I/COL1A2 Rabbit pAb
Journal:Antioxidants (Basel)
Application:WB
IF:6.312
Species:Homo sapiens
PMID:33451157
Title:Characterization of TGF-β by Induced Oxidative Stress in Human Trabecular Meshwork Cells