

COL1A1 Polyclonal Antibody

Catalog No: #28307

Package Size: #28307-1 50ul #28307-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

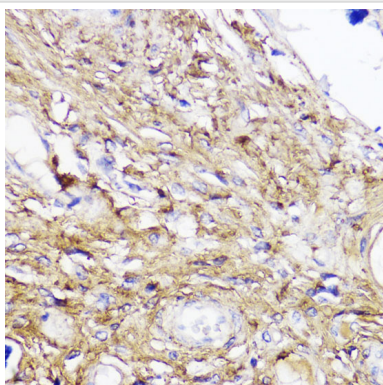
Description

Product Name	COL1A1 Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Affinity purification
Applications	WB,IHC,IF
Species Reactivity	Human,Mouse,Rat
Immunogen Description	A synthetic peptide of human COL1A1 (NP_000079.2).
Conjugates	Unconjugated
Other Names	COL1A1; EDSC; OI1; OI2; OI3; OI4; collagen alpha-1(I) chain
Accession No.	Swiss-Prot#:P02452NCBI Gene ID:1277
Calculated MW	139kDa
SDS-PAGE MW	130-160 kDaαO 210-250kDa
Formulation	Avoid freeze / thaw cycles. Buffer: PBS with 50% glycerol, pH7.4.
Storage	Store at -20°C

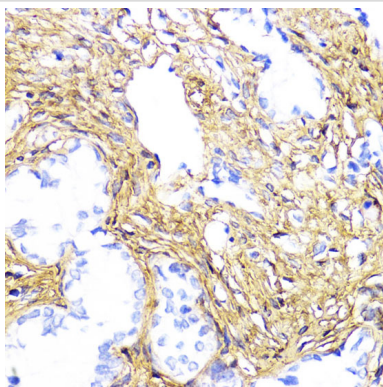
Application Details

WB 1:500 - 1:1000IHC 1:50 - 1:200IF 1:50 - 1:200IP 1:50 - 1:200

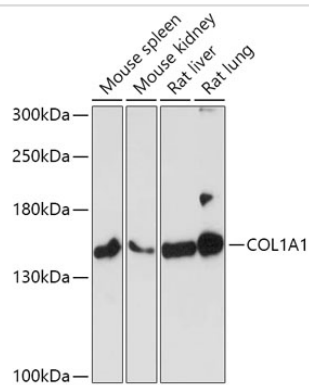
Images



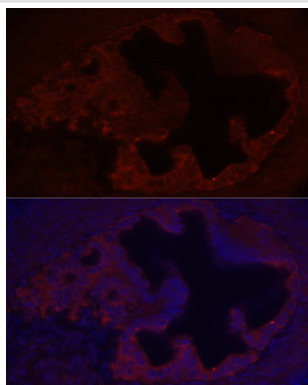
Immunohistochemistry of paraffin-embedded human placenta using COL1A1 at dilution of 1:200 (40x lens).



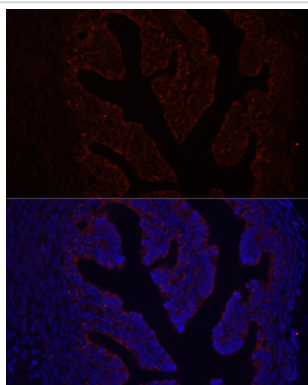
Immunohistochemistry of paraffin-embedded rat ovary using COL1A1 at dilution of 1:200 (40x lens).



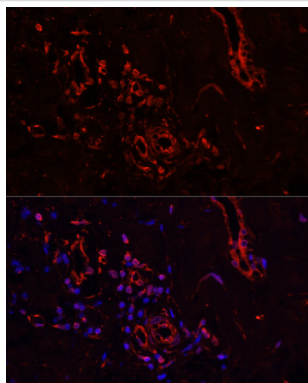
Western blot analysis of extracts of various cell lines, using COL1A1 at 1:1000 dilution.



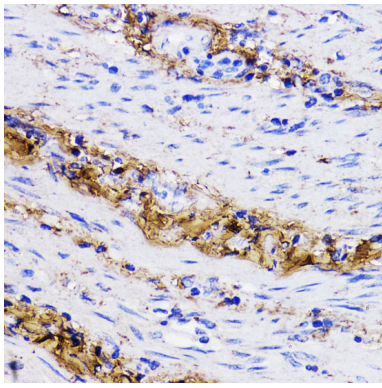
Immunofluorescence analysis of rat ovary using COL1A1 at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of human breast cancer using COL1A1 at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of human breast cancer using COL1A1 at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunohistochemistry of paraffin-embedded human colon carcinoma using COL1A1 at dilution of 1:200 (40x lens).

Background

This gene encodes the pro- $\alpha 1$ chains of type I collagen whose triple helix comprises two $\alpha 1$ chains and one $\alpha 2$ 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.

Published Papers

el at., Role of the CTRP6/AMPK pathway in kidney fibrosis through the promotion of fatty acid oxidation. In Eur J Pharmacol on 2021 Feb 5 by Yu-Hong Xie, Yi Xiao,et al..PMID:33245899, , (2021)

[PMID:33245899](#)

el at., 3D printed PGCL@PLA/10CSPL composite scaffolds loaded with fibronectin 1 for intervertebral disc degeneration treatment, In Biofabrication on 2024 Dec 13 by Weilin Zhang, Siyuan Chen,et al..PMID:39668784, , (2024)

[PMID:39668784](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.