

Mouse Collagen I Monoclonal Antibody | anti-COL1A1 antibody

Collagen I Mouse Monoclonal Antibody (4H10)

CATALOG # AAA330127	HOST Mouse	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunofluorescence, Immunohistochemistry
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PRODUCT SYNONYMS

Collagen I; Monoclonal Antibody; Collagen I Mouse Monoclonal Antibody (4H10); Mouse Anti-Collagen I Mouse Monoclonal Antibody (4H10); Collagen alpha-1(I) chain; Alpha-1 type I collagen; anti-COL1A1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG1
Specificity	The antibody detects endogenous Collagen I protein.
Purity/Purification	Affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Form/Format	Liquid; PBS, pH 7.4, Containing 0.02% Sodium Azide As Preservative and 50% Glycerol.
Concentration	1 mg/ml (varies by lot)
Sequence Length	1464
Applicable Applications for anti-COL1A1 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry)
Immunogen	Synthetic Peptide of Collagen I
Preparation and Storage	Stable for one year at -20 degree C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)

Fig.2. Immunohistochemical analysis of paraffin-embedded rat kidney tissue. 1, Collagen I Mouse Monoclonal Antibody (4H10) was diluted at 1:200 (4 degree C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98 degree C, 20min). 3, secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.



IHC (Immunohistochemistry)

Fig.1. Immunohistochemical analysis of paraffin-embedded human lung cancer tissue. 1, Collagen I Mouse Monoclonal Antibody (4H10) was diluted at 1:200 (4 degree C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98 degree C, 20min). 3, secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.

ADDITIONAL INFORMATION

Related Product Information for anti-COL1A1 antibody	COL1A1 (collagen type I alpha 1 chain) encodes the pro-alpha1 chains 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 COL1A1 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 COL1A1.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	296439504
NCBI GeneID	1277
UniProt Accession #	P02452
NCBI Official Full Name	Collagen alpha-1(I) chain
NCBI Official Synonym Full Names	collagen type I alpha 1 chain
NCBI Official Symbol	COL1A1
NCBI Official Synonym Symbols	OI1; OI2; OI3; OI4; EDSC; EDSARTH1
NCBI Protein Information	collagen alpha-1(I) chain
UniProt Protein Name	Collagen alpha-1(I) chain
UniProt Gene Name	COL1A1
UniProt Entry Name	CO1A1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/collagen-i-antibody-immunofluorescence-immunohistochemistry-elisa/330127>