Datasheet for ABIN7212386

anti-Collagen Type I antibody

2 Images

Go to Product page

Overview

Quantity:	100 µL
Target:	Collagen Type I (COL1)
Reactivity:	Human, Rat, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Collagen Type I antibody is un-conjugated
Application:	Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Collagen I Mouse Monoclonal Antibody (4H10)
Immunogen:	Synthetic Peptide of Collagen I
Clone:	4H10
Isotype:	IgG1
Specificity:	The antibody detects endogenous Collagen I protein.
Purification:	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen

Target Details

Target:	Collagen Type I (COL1)
Alternative Name:	Collagen I (COL1 Products)

Target Details

Background:	Mouse Anti-Collagen I Mouse Monoclonal Antibody (4H10),Collagen alpha-1(I) chain, Alpha-1 type I collagen,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.,Collagen alpha-1(I) chain (Alpha-1 type I collagen)
Molecular Weight:	observerd band 139kDa
Gene ID:	1277, 1278
UniProt:	P02452

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: IHC-P (1:50-1:200).
Comment:	Primary Antibody
Restrictions:	For Research Use only

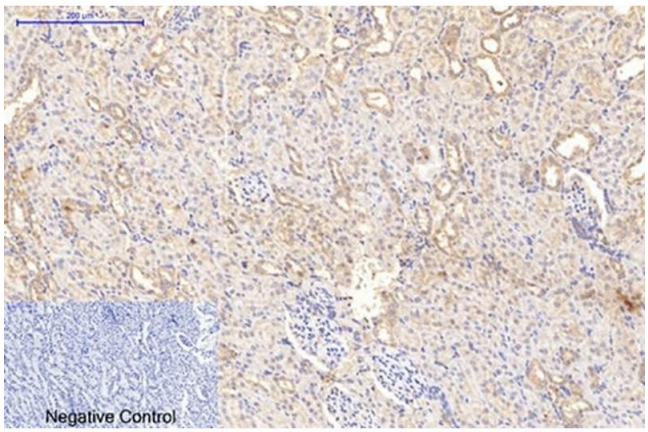
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS, pH 7.4, containing 0.02 % Sodium Azide as preservative and 50 % Glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Stable for one year at -20°C from date of shipment. For maximum recovery of product,

Handling

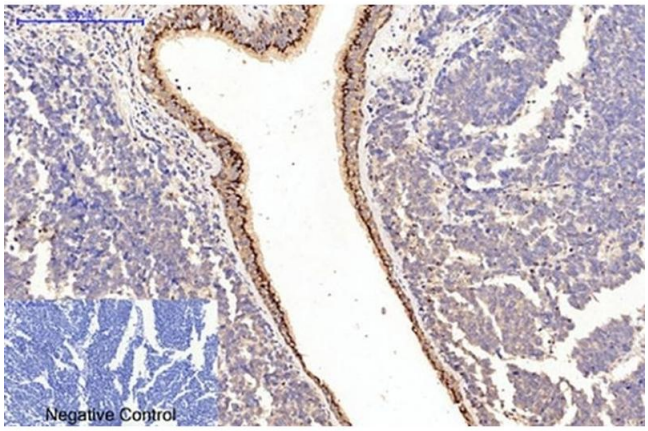
centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing.

Images



Immunohistochemistry

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



Immunohistochemistry

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